Duplicate
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Nov 12th 1920

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Entered
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Phone: Gerrard 1824. Sale No. 13,221.

Sale to commence at **12.30** *o'clock.*

FRIDAY, NOVEMBER 12th, 1920.

WA/HMM/OM/Sat/
21/833/1

A CATALOGUE OF

Scientific and Photographic Apparatus

INCLUDING

The Second Portion of the Celebrated Collection of

MICROSCOPES and ACCESSORIES,

formed by the late Sir Frank Crisp, Bart.;

Valuable Cameras and Lenses,

by first-rate makers;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On FRIDAY, NOVEMBER 12th, 1920,

At **12.30** *o'clock.*

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address: AUKS, RAND, LONDON. **Established 1760.**

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

*** *Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques

A CHARGE FOR WAREHOUSING WILL BE MADE ON LOTS NOT CLEARED PROMPTLY.

Telephone :—
GERRARD, 1824.

Telegrams :—
AUKS, RAND.

BUYER J. N. Snell

AUCTIONEERS Stevens.

Date Nov. 12/20

Lot	Amount £	s.	d.	Lot	Amount £	s.	d.
199		18	0				
209a	1	15	0				
316	2	0	0				
	4	13	0				

Siv. Mu. 3

A CATALOGUE

Friday, November 12th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
1	Handsome papier-mâché writing box, inlaid with pearl
2	Pair of handsome bronze vases with figures on marble stands, with liners
3	*An* 18-*carat gold chronometer watch,* by Sharp, Dublin, in case ; in going order and regulated
4	Mark V. aircraft watch, highest grade, detached lever, 15-jewel movement, Breguet spring, non-magnetic compensated balance, 3 positions synchronised, with dashboard holder or for pocket ; guaranteed perfect
5	Ditto, less holder
6	An 8-day fully luminous Mark IV. A., ditto, same specification
7	An 8-day non-luminous ditto
8	Coney seal coat, as new
9	Ditto

10	Coney seal coat with skunk opossum collar
11	Six gramophone motors, complete with turntable and winding key
14	Hornless gramophone with lid and doors, in perfect condition
15	Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
16	Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
17	Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
18	Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
19	Microscope, rack and fine adjustment, 2 powers, in case
20	Plated tray and 2 ditto boxes
21	Two lady's umbrellas
22	Six spoons, 6 forks and tea tray
23	Pair of photo frames
24	Six knives, 6 forks and 6 spoons
25	Set of 5 aluminium saucepans with lids
26	Electric battery with fitting in mahogany case, perfect order and condition
27	Binocular microscope in mahogany case, with eyepieces, objectives, etc.
28	No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
29	Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
30	No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
31	Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
32	Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

33 A large collection of stamps in improved album
34 Two albums and quantity of stamps
35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc. ; a useful lot
36 Engraving by Bartolozzi after Hamilton—"Edmund Keene as Richard III.," framed and glazed
37 Oil painting in gilt frame—"Shipping"
38 Three large water-colour drawings, framed
39 Five small ditto
40 Oil painting in gilt frame and a pen and ink drawing
41 Two coloured engravings in black and gilt frames, a sepia engraving—"Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
42 Two engravings—Horses, by Stubbs, Anvil and Godolphin; old print, coloured—"Race over the Beacon Course, Newmarket, 1770"
43 Another—"Bay Malton beating Gimcrack"
44 A coloured oval in sepia—Duchess of Devonshire, 1782
45 Coloured engraving—"Attacking the Fortress," by Lucas
46 Circular coloured engraving—"The Harvester," by H. Mole
47 Coloured engraving—"The Farmer's Boy"
48 Ditto—"The Infant Bacchus," by R. Westall, R.A., 1804
49 Oil painting—Landscape with Herdsman and Cattle
50 Another—"Birds"
51 Another—Portrait of a Gentleman
52 Another of an Artist
53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

55 Thornton-Pickard ½-plate camera, slides, stand and case

56 A 10 by 8 copying camera, 2 slides

57 Billcliffe midget camera, lens and stand

58 Billcliffe vertical enlarger with condenser

59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case

60 Twenty-four printing frames, ½-plate

61 Six lenses

62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack

63 Goerz-Anschutz 5 by 4 focal plane folding camera; the favourite pressman's model fitted with Goerz Dagor 6·8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes; in leather case

64 A ¼-plate folding camera with Rodenstock aplanat 7·7 lens, film pack adapter, 3 metal plate-holders; canvas case

65 A 5 by 4 Ray camera, Beck Isostigmar lens F/5·8, six slides and leather case

66 No. 3 folding pocket Kodak, ¼-plate, for roll films, rapid rectilinear lens, T.B. and I. shutter; good condition

67 Ensign ¼-plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet

68 No. 1A folding pocket Kodak, closed front model, black bellows

69 Pair powerful field-glasses, in case

70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses

71 *Watson's 5 by 4 Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*

72 Fine 10-lens leather-covered powerful field-glasses, in tan case

73 Fine 3-draw leather-covered telescope with case

74 Small microscope in case

75 Fine student's microscope with ¼-in. and ½-in. objectives, 2 eyepieces, bull's-eye condenser ; in mahogany case, splendid order

76 A pair of powerful field-glasses

77 Strong 4-fold wooden tripod with top

78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model

79 No. 3 Cartridge Kodak ¼-plate for roll films or plates, double extension, Goerz anastigmat lens F/6·8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model

80 No. 3 folding Brownie ¼-plate for roll films ; as new

81 A ¼-plate magazine camera

82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter ; leather case

83 Vest pocket Kodak, fine 6·9 anastigmat lens ; just cost £6

84 Twelve No. 1 Brownie spools ; date just expired but quite perfect

85 Small powerful telescope

86 No. 1 box Brownie with view finder

87 No. 1 Ensignette in case, as new

88 Vest pocket Kodak with fine F/6·9 anastigmat lens in case

89 *Postcard and* 10 *by* 15*cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F*/4·5, 6-*in. focus, compound shutter,* 2 *slides and film pack adapter*

90 Shew folding Eclipse ¼-plate camera, fine rapid rectilinear lens, 3 double dark slides

91 Fine compound microscope with 2 objectives, in mahogany case

92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5·7, speeded shutter, leather case

93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6·3, speeded shutter

94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6·3, leather case

95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6·3, focal plane shutter

96 A $\frac{1}{4}$-plate folding camera, double extension Goerz Dagor lens F/6·8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter

97 No. 3 folding Kodak $\frac{1}{4}$-plate, very late model; fine condition

98 A $\frac{1}{4}$-plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$-plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case

99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case; make a fine studio outfit

100 Carbine $\frac{1}{4}$-plate roll film camera, will also take plates; Beck rapid rectilinear lens, speeded shutter

101 Goerz Dagor anastigmat lens, F/6·8, 6-in. focus in automat fully speeded shutter

102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case

103 Fine lens for $\frac{1}{2}$-plate enlarger

104 Hume's $\frac{1}{4}$-plate Cantilever enlarger for artificial light, with illuminant

105 A No. 3 folding pocket Kodak for $\frac{1}{4}$-plate roll films

106 Holborn $\frac{1}{4}$-plate magazine camera, fine F/7·7 lens, for 12 plates

107 A No. 2 folding Kodak for $3\frac{1}{2}$-in. square pictures (lantern slide size), in leather case

108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$-in. objectives and 2 eyepieces, in mahogany case

109 A Negretti & Zambra's $\frac{1}{12}$in. oil immersion microscope objective

110 *A Zeiss Minimum Palmos* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$-plate with carriers, Zeiss Tessar lens, F/4·5, focal plane shutter, 3 double dark slides, and folding pack adapter

111 A No. 2 Brownie box-form camera and canvas case

112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter

113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6·8, speeded shutter

114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front

115 A No. 1 box Brownie view finder and a canvas case

116 A vest pocket Kodak in leather case

117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter

118 Pair of powerful field-glasses in case

119 Pair of Lemaire binoculars in leather case

120 A No. 1A folding pocket Kodak, late closed front model, black bellows

121 A magazine camera, $\frac{1}{4}$-plate, fine lens, magnifiers, etc.

122 A ditto

123 Benetfink's lightning $\frac{1}{4}$-plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new

124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case

125 A 8A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case

126 Toy microscope in case

127 A Beck compound microscope, $\frac{1}{4}$-in. and 1-in. objectives, eyepiece, and case

128 Two boxes microscopic slides, about 150 assorted subjects
129 Two small single lenses
130 A Ross Goerz double anastigmat lens, F/6·8, in fully speeded unicum shutter, 5in. focus
131 400 P.O.P. postcards
132 400 ditto
133 400 ditto
134 400 ditto
135 400 ditto
136 400 ditto
137 Five ¼-plate Goerz film packs, dated Feb. 1921, cost 22/6
138 Six 9 by 12cm. Goerz film packs, cost 34/–
139 Six ditto
140 Six ditto
141 Six ditto
142 Stereo Weno stereoscopic roll film camera, full size, fine rapid rectilinear lens, leather case; practically as new
143 Small microscope in case, old fashioned but very effective
144 Photo Jumelle 3½ by 2½ Stereoscopic Co.'s magazine camera, fitted with Krauss Zeiss Tessar lenses, F/6·3, in tan leather case
145 Watson's 6x prism binoculars, eyepieces separate focusing, bending bar, leather case
146 Fine pair Hunsicker & Alexis prism binoculars, 8 magnification eyepiece focusing, tan leather case
147 Negretti & Zambra's 8x stereo prism binoculars, central focusing, eyepiece adjustment, leather case; fine
148 A Richard's glyphoscope stereoscopic camera, complete with 12 slides and leather case
149 A Thornton-Pickard Ideal ¼-plate folding camera, fine lens, 2 slides, and case
150 Nine Thornton-Pickard ¼-plate single slides
151 A ¼-plate magazine camera for plates

152 A metal telescopic tripod

153 A $\frac{1}{4}$-plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens

154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new

155 Polished walnut stereoscope on stand, with coloured and other views

156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder

157 Fine $\frac{1}{2}$-plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod

158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new

159 *Ensign Popular Pressman Reflex $\frac{1}{4}$-plate, double extension, Ross Xpress lens, F/4·5, focal plane shutter, and 6 single slides*

160 Holborn Ilex magazine camera, $\frac{1}{4}$-plate focusing model, Aldis Plano anastigmat lens, F/6·8, speeded shutter, brilliant finders, in splendid condition

160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking inter-ocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$in., and $\frac{1}{5}$in., stage forceps, live box and stage bull's-eye condenser, in case £14. 10. 0 to clear

162 Beck $\frac{1}{4}$in. objective for use with binocular

163 A ditto $\frac{1}{8}$in. ditto

164 A ditto $\frac{1}{10}$in. (immersion) ditto

165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$in., $\frac{1}{6}$in., and $\frac{1}{12}$in. oil immersion

166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case

167 Swift portable binocular, 2 eyepieces, spot lens and polariscope

168 Swift spot lens with centering adjustment

169 Watson projection eyepiece

170 Gundlach $\frac{1}{16}$in. immersion objective, with correction collar

171 Watson $\frac{1}{12}$in. oil immersion for metallurgical work

172 Wray $\frac{1}{4}$in. objective

173 Triple nosepieces

174 Micro lamp in case

175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{12}$in. oil immersion

176 Blood counter, after Thoma

177 Zeiss projection eyepiece

178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case

179 Zeiss apochromatic objective, 1·5mm. oil immersion

180 Compensating eyepiece by Baker

181 Zeiss 16mm. apochromatic objective

182 A No. 12 compensating eyepiece

183 Abbé condenser with iris diaphragm

184 Zeiss 4mm. apochromatic, with correction collar

185 Zeiss condensing lens, with iris diaphragm, in gimbals

186 A 3-in. objective by Ross

187 Dollond student microscope, rack coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser on stand, complete in case

188 Dissecting microscope with rack, 3 lenses, turntable, erecting eyepiece and triple objective, complete in case

189 Micro lamp, complete in case

190 Swift student microscope, rack coarse and micrometer fine adjustment, racking and centering sub- stagewith Abbé condenser and iris, double nosepiece, 2 eyepieces, $\frac{2}{3}$in. and $\frac{1}{6}$in. objectives, sliding polariscope in body, and swing out analyser

191 Box of rock specimens in 4 trays, by Gregory

192 Blood counter in case

193 Microscopic air pump, complete with bell, on stand

194 Crouch monocular microscope, rack coarse and micrometer fine adjustment, eyepiece, 1in. and $\frac{1}{4}$in. objectives

195 A $3\frac{1}{2}$-in. telescope by Tulley, finder and steady rods, 1 day, 2 astro eyepieces, with equatorial head, in case, and tall outdoor stand

196 Equatorial head on tall outdoor stand

197 Cooke's sun-diagonal

198 Set 4 achromatic eyepieces by Browning, in case

199 Dent's meridian instrument

200 A $3\frac{1}{4}$-in. telescope by Jones, with finder, 2 astro eyepieces, 2 day ditto, on equatorial head with slow motions, on tall stand

201A Single prism table spectroscope

202A Recording barometer

203A Faber 10-in. slide rule

204A Case of drawing instruments and board
205A A ditto
206A A ditto
207A Box of railway curves
208A Biunial lantern with dissolver
209A Two limelight jets
210A A graphoscope (folding)
211A A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet; this is a very fine instrument
212A Steward microscope, 2 objectives, mechanical stage, in mahogany case

The Second Portion of the Collection of MICROSCOPES and ACCESSORIES, formed by the late Sir Frank Crisp, Bt.

201 *Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws; fitted with a pair of "A" capped eyepieces; by Watson & Sons*
202 An "A" objective, by Zeiss
203 A 1-in. and ½-in. objective, by Tulley
204 No. 10 immersion objective, by Verick
205 Two objectives in cases
206 Three various objectives
207 Objective with lieberkuhn, and 4 others
208 Zengers' $\frac{1}{50}$-in. endo-immersion
209 Hasert's $\frac{1}{16}$-in. immersion, and another
210 Three objectives
211 A ¼-in. objective with correction collar, by Nobert
212 A mounted double mirror on stand, and an expensively mounted prism
213 A 4-in. double bull's-eye stand condenser

214	Two bull's-eye stand condensers
215	An adjustable microscope lamp by Baker, with metal chimney
216	Fidden's improved portable microscope lamp
217	Schafer's thermo-regulator with glass and mercury
218	Abbé test plate mounted in brass, by Zeiss, and a Maltwood finder in case
219	A goniometer stage and a tilting stage, by Watson
220	A revolving stage, another on ball and socket, revolving object holder and 2 others
221	An expensively made micro-spectroscope fitted with comparison mirrors
222	An expensively-made micrometer eyepiece, by Hartnack & Co., and another micrometer eyepiece
223	An expensively made rack revolving goniometer with crystal stage
224	Oberhausser's horizontal camera lucida
225	Sub-stage condenser fitted in rack adjusting under-stage, and a case of dark wells, both by Beck
226	A camera lucida fitted to eyepiece, 2 by Chevalier, and 2 others
227	Three nose-pieces and 2 pairs of safety rings
228	Two hot stages, 2 frog plates and a compressor
229	A binocular eyepiece by Hartnack, fitted with a pair of eyepieces, and another by Tolles fitted with a pair of eyepieces
230	Ten various single nose-pieces
231	Two micrometer eyepieces, a calliper eyepiece, and an eyepiece ruled in squares
232	An expensively made comparison micrometer eyepiece by Nachet
233	An expensively mounted drawing prism
234	A binocular eyepiece by Verick, fitted with 2 eyepieces

235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions

236 Three hot stages

237 Three hot stages and an electric stage

238 An expensively made goniometer stage with divided circles

239 Five compressors

240 Five ditto

241 A blood-testing set by Zeiss, another by Verick, and another

242 Nine various eyepieces

243 *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated,* rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross

244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces

245 *Stephenson's erecting binocular microscope,* rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London

246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens

247 Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris

248 Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser

249 An Abbé condenser by Zeiss in sub-stage fitting

250 Stephenson's illuminator and 3 understage condensers

251 Three kettle-drum condensers by Ross, and a Kingsley illuminator

252 A Nachet prism, Wenham's reflex illuminator, and 3 other prism illuminators

253 A Webster condenser, Wallach's condenser, spot lens, and 2 other condensers

254 Beck's tadpole condenser and another by Beck 30/- Court

255 Eight various diaphragms and under-stage fittings

256 Multiple colour spot lens, 2 mounted prisms, a mounted mirror and 2 other fittings

257 Two silver side reflectors, a paraboloid and a mounted lens

258 Two under-stage condensers, spot lens with iris diaphragm, revolving polariscope, and a centering sub-stage fitted, by Beck

259 Two large mounted prisms, a mounted mirror and 2 stage bull's-eyes

260 Draw tube fitted with erector, a goniometer eyepiece, divided circle and analysing prism

261 Set of Darker swing-out selenites and a revolving polariscope

262 An apertometer, by Zeiss

263 A polarising bundle, a polariscope and a mounted prism 14/- Court

264 Swift's best sub-stage condenser with revolving polariscope and centering screws

265 An expensively made patent petrological microscope by Swift, with graduated revolving polariscope and analyser, graduated fine adjustment, rack coarse adjustment and moveable selenite plate, etc. £2. 0.0 Per

266 An expensively made micrometer microscope, fitted with micrometer stage, graduated, and a Ramsden's micrometer eyepiece 60/- Court

267 A bacteriological microscope, rack coarse adjustment, micrometer screw fine adjustment, by Hartnack 27/- Marshall

268 Bausch & Lomb's laboratory microscope; can be used either inverted or as an ordinary microscope

269 Student's microscope by Reichert

270 A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage

271 A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment

272 An expensively made theodolite microscope, with levelling screws and divided in silver

273 Horizontal microscope with glass rotating stage, fitted with objective and eyepiece

274 An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece

275 A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror

276 A sub-stage condenser with centering screws; another condenser and 2 others

277 An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline

278 Expensive model of the human eye, another model, and a model with lens on stand

279 Pseudoscope in case, and a direct vision spectroscope with adjustable slit; and comparison prism by Browning

279A A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus

280 An expensively made pair of prisms on stand showing the recomposition of light

281 Expensively made stand for a pseudoscope and a Newton ring apparatus

282 A small level and a Bunsen burner

283 A telescope with stand and other fittings in case

56569

284 Albertottie's micrometer microscope with rack revolving micrometer scale, divided in silver, made by Bartels & Diederichs — £6 6/- Court

285 Student's microscope by Bausch & Lomb, rack coarse adjustment, micrometer fine adjustment — 37/- Hutchison

286 Ditto, ditto — 27/6 Bates

287 Portable microscope with eyepiece, in glass-topped case — 37/- Hawkes

288 Artificial model of eye, and a large mounted mirror on stand with ball and socket movements 56364 — 30/- Court

289 Set of high-power achromatic magnifiers with holder, by Steinheil

290 A press showing the polarising effect of stress in glass cubes, and another for bars, by Hoffman, Paris

291 Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers

292 *Presentation binocular microscope by Tolles,* rack adjustment for width of eyes, mechanical micrometer goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces — £11. Baker

293 Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces — £6. Davis

294 Presentation binocular by Zentmayer, rotating goniometer stage, rack adjusting sub-stage, rack coarse adjustment, graduated fine adjustment; instrument rotates on the base, which is graduated — £11-10-0 Bennett

295 Ten various eyepieces

296 56750 Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece — 60/- Court

297 Demonstration microscope fitted with eyepiece and objective; and another with eyepiece — 28/- Lowell

298 Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece; and another 56396

299 Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage 56392

300 Demonstration microscope on stand, with eyepiece and objective, by Chevalier

301 McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece 56395

302 Portable microscope by Verick

303 Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case

304 Student's microscope with folding foot

305 Student's microscope, rack coarse adjustment and Wales' form of inclination

306 Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand 56745

307 Dissecting microscope with 3 powers on stand, another with 3 powers, and another

308 A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye 56363 56345

309 Dissecting microscope with 3 powers, and Huxley's dissecting microscope

310 Trichina microscope, revolving glass stage with rack adjustment 56494

311 Microscope with large micrometer stage and screw adjustments 56565

312 Four small microscopes

313 An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross; fitted with a pair of "B" eyepieces

314 An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment

315 Two student's microscopes, rack coarse adjustments

316 Portable microscope by Collins, and a small ditto 56369

317 Two student's microscopes with rack adjustments

318 Student's microscope by Ladd, rack adjustment 25/- Bull

319 Bacteriological microscope, by Bethle & Rexroth 18/- "

320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective 16/- Lowell

321 Stein's electric light microscope fitted with lamps and resistances 75 Court
56747

322 Portable microscope by Baker, and eyepiece, in leather case with straps 22/- Lowell

323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, ¼in. with lieberkuhn, ½-in. correction collar, etc., in case £9. Reynolds

324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer £6.10.0 Lowe

325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye £8/10/- Bethle

326 Student's microscope fitted with swing-out sub-stage and Abbé condenser 25/- Bethle

327 Biological microscope fitted with extra large stage, by Schmidt & Haemsch 22/- Bethle

328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective £15/1/- Court
56491

329 Lossener's combined microscope and telescope with tripod stand 26/- Court

330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser 56743 10/- Court

331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes 30/- ?

332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser; by Nachet

333 A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*

334 A binocular microscope by Beck, for the examination of large objects

335 Five small microscopes

336 A small microscope on stand, and 3 others

337 A Leiter's stomach microscope

338 A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris

339 A Geneva Co.'s calliper microscope with graduated scale

340 An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions

341 An expensively made microscope for the investigation of objects under the air pump, with table clamp

342 An expensively made microscope for the investigation of Newton's rings, with micrometer movements

343 A dissecting microscope and a microscope lamp, by R. & J. Beck

344 A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver

345 Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements

346 Aquarium microscope with outer glass tube, and rack coarse adjustment

347 An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

348 A horizontal microscope by Chevalier, and brass stand 40/- ?

349 An expensively made lens holder on stand, with rack adjustment, and a microscope by Murray & Heath 16/- Frayn

350 An inverted chemical microscope by Nachet 65/- Court

351 A vibration microscope, fitted with rack adjustment, eyepiece, objective and tuning fork 90/- Clay

352 An expensively made reading microscope, fitted with micrometer, divided on silver, and prismatic eyepieces £6 10/- Baker

353 A binocular microscope by Smith & Beck (A.F.) 45/- ?

354 An inverted chemical microscope by Nachet 56442 40/- Cowell

355 An expensively made micrometer reading microscope by the Cambridge Scientific Instrument Co. 56563 30/- Court

356 Aquarium micro cope on stand, fitted with eyepiece and objective 23/- Bayfield

357 A comparison microscope with graduated movements to the stage 24/- ?

358 A Wasserlein saccharometer microscope, fitted with bi-quartz 21/- ?

359 A reading microscope with micrometer, screw motions, in horizontal directions, by Plossl, and a carrier for a reading microscope 12/- Day

360 An aquarium tank on stand by Klonne & Muller, and a bull's-eye condenser, no stand 14/- King

361 An aquarium microscope, a lens holder on stand, and an aquarium on stand 20/- Court

362 An expensively made binocular examination microscope with graduated rack adjustment to eyepieces, and graduated coarse adjustment, reading by vernier, by C. G. Collin, Stockholm 56454 £6. Court

363 An inverted chemical microscope by Nachet, adjusting swing-out sub-stage with condensing lens, micrometer movements to the stage £4. Court

364 A large bull's-eye stand condenser, 4-in. lens

365 A microscope lamp, fitted with bull's-eye condenser and sterilizer

366 A bull's-eye stand condenser, 3-in. lens

367 Two ditto

368 An inverted microscope by Nachet 26/- Cornish

369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens 26/- Dray

370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye 10/- Dixon

371 A projection microscope on ornamental stand 56825 30/- Cornish

372 An horizontal microscope by Nachet, fitted with eyepiece and powers 56751 60/- Cornish

373 A large 4-in. lamp and condenser in brass mount, with slide holder

374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs 12/6 Cornish

375 An expensively made heliostat 90/- Dumbleby

376 A microscope table with revolving casters

377 An expensively mounted tuning fork, to show vibrations in microscope 56564 40/- Cornish

378 A fitted microscope case with microscope tubes, and other sundries

379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries 15/- Cornish

380 Seventeen small seed microscopes 18/- Macaray

381 Fourteen seed and other small microscopes 18/- "

382 Fifteen seed and botanical microscopes 24/- Cornish

383 Nine Coddington and other hand magnifiers 67/6 Hall

384 Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles 30/- Cornish

385 Fifteen small hand microscopes 20/- Macaray

386 Twenty ditto magnifiers, etc. 20/- "

387 Twenty-two various small magnifiers, in 2 cases 30/- Cornish

388 A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case 26/- Jewell

389	Two trichinoscope, a small compass microscope, a binocular hand magnifier, and a small microscope in case
390	A focusing glass by Ross, and another
391	Three dozen slides—various
392	Ditto
393	Ditto
394	Sixteen fine test diatoms, and 17 others
395	Three dozen sections of shells, pearls, etc.
396	Three dozen insects, etc., by Enoch, Topping, and other good mounters
397	Thirty fine insect and insect parts, including the scarce fairy fly, by Enoch and other good mounters
398	Thirty-eight insect parts, and various
399	Forty-one large insect parts and botanical
400	Twenty-eight various and 6 large injected slides
401	Two dozen large injected slides
402	Nineteen fine coal sections
403	Four rock sections, including 2 of the scarce Eozoon Canadense and 36 others, including scarce platino cyanides, and other polarising salts
404	Thirty-one slides, various, by Enoch and others
405	Twenty-four test diatoms
406	Eight choice exhibition slides
407	Two dozen exhibition objects, in case
408	Eight choice slides showing the anatomy of the insect on one slide
409	A scarce diamond writing at the rate of 12 bibles to the inch, and another
410	A ditto
411	A scarce diamond writing at the rate of 13 bibles to the inch
412	A scarce diamond writing at the rate of 14 bibles to the inch, and another 16 bibles to the inch
413	A scarce diamond writing at the rate of 15 bibles to the inch, and another 10 bibles to the inch
414	A scarce diamond writing at the rate of 47 bibles to the inch

415 Noberts' ruling 11 bands, *now very scarce*
416 Ditto, 17 ditto
417 Ditto, 19 ditto
418 Ditto, 20 ditto

Another Property.

419 *Binocular microscope by Watson, "Edinburgh Students' Model," with 2 B and 1 C eyepieces, 1-in. and ⅛-in. objectives, by Watson, and a $\frac{1}{12}$-in. ditto by Powell & Lealand;* coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, *Abbê* condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (*perfect condition*)
420 Microscopic lamp with bull's-eye, in case
421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
422 Forty-three well mounted micro slides, contents of 2 drawers
423 Forty-eight ditto
424 A ditto lot
425 Sixty ditto, contents of 3 drawers
426 A Morton's opthalmoscope in case
427 Old medical book with coloured illustrations
428 An air pump with glass shade
429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
430 Pair Carl Zeiss prismatic binoculars, 8x, in case
431 An electric copper kettle, 1½ pints, 200-210 volts, complete with flexible and adapter; perfect order
432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
433 A 4-volt 40 amp. "Ever Ready" ditto
434 An 8-volt 30 amp. accumulator, charged

435	Three 2-volt 100 amp. "Lucas," charged
436	Half-dozen 4-volt 4 amp. "King Eton," new
437	Half-dozen 4-volt 4 amp. ditto, ditto
438	Half-dozen 4-volt 4 amp. ditto, ditto

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and Curios from Omdurman, the Property of an Officer.

Chinese and Japanese Porcelain ; Ivories ; Bronzes ; Native Curios, etc.

THURSDAY, NOVEMBER 18th, and FRIDAY, NOVEMBER 19th :—

Scientific and Photographic Apparatus ; Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also Cabinets, being the Collections of Captain Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and Roman Antiquities.

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND PHOTOGRAPHIC APPARATUS AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes Microscopes, Telescopes, Cameras, Lenses, Lanterns, Cinematographs, Theodolites and Levels, and every class of Scientific Instrument; Lathes and Tools, Furniture, Silver Plate, Jewellery, Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES, ARMS AND ARMOUR, IVORIES, ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to Entomology, Ornithology, Conchology, Minerals, Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London." Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

Original Sale Nov. 12th 1920

Phone : Gerrard 1824. Sale No. 13,221.

Sale to commence at **12.30** *o'clock.*

FRIDAY, NOVEMBER 12th, 1920.

WATHM/MMGT/ 21/33/2

A CATALOGUE OF

Scientific and Photographic Apparatus

INCLUDING

The Second Portion of the Celebrated Collection of

MICROSCOPES and ACCESSORIES,

formed by the late Sir Frank Crisp, Bart.;

Valuable Cameras and Lenses,

by first-rate makers;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On FRIDAY, NOVEMBER 12th, 1920,

At **12.30** *o'clock.*

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address: AUKS, RAND, LONDON. **Established 1760.**

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

*** *Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques

A CHARGE FOR WAREHOUSING WILL BE MADE ON LOTS NOT CLEARED PROMPTLY.

Telephone ;—
GERRARD, 1824.

Telegrams :—
AUKS, RAND.

BUYER G N Smith

AUCTIONEERS Stevens

Date Nov. 12/20

Lot	Amount £	s.	d.	Lot	Amount £	s.	d.
199		18	0				
207a	1	15	0				
316	2	0	0				
	£4	13	0				

3

A CATALOGUE

Friday, November 12th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
1	Handsome papier-mâché writing box, inlaid with pearl
2	Pair of handsome bronze vases with figures on marble stands, with liners
3	*An* 18-*carat gold chronometer watch*, by Sharp, Dublin, in case ; in going order and regulated
4	Mark V. aircraft watch, highest grade, detached lever, 15-jewel movement, Breguet spring, non-magnetic compensated balance, 3 positions synchronised, with dashboard holder or for pocket ; guaranteed perfect
5	Ditto, less holder
6	An 8-day fully luminous Mark IV. A., ditto, same specification
7	An 8-day non-luminous ditto
8	Coney seal coat, as new
9	Ditto

10	Coney seal coat with skunk opossum collar
11	Six gramophone motors, complete with turntable and winding key
14	Hornless gramophone with lid and doors, in perfect condition
15	Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
16	Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
17	Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
18	Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
19	Microscope, rack and fine adjustment, 2 powers, in case
20	Plated tray and 2 ditto boxes
21	Two lady's umbrellas
22	Six spoons, 6 forks and tea tray
23	Pair of photo frames
24	Six knives, 6 forks and 6 spoons
25	Set of 5 aluminium saucepans with lids
26	Electric battery with fitting in mahogany case, perfect order and condition
27	Binocular microscope in mahogany case, with eyepieces, objectives, etc.
28	No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
29	Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
30	No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
31	Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
32	Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

33 A large collection of stamps in improved album
34 Two albums and quantity of stamps
35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc. ; a useful lot
36 Engraving by Bartolozzi after Hamilton—"Edmund Keene as Richard III.," framed and glazed
37 Oil painting in gilt frame—"Shipping"
38 Three large water-colour drawings, framed
39 Five small ditto
40 Oil painting in gilt frame and a pen and ink drawing
41 Two coloured engravings in black and gilt frames, a sepia engraving—"Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
42 Two engravings—Horses, by Stubbs, Anvil and Godolphin; old print, coloured—"Race over the Beacon Course, Newmarket, 1770"
43 Another—"Bay Malton beating Gimcrack"
44 A coloured oval in sepia—Duchess of Devonshire, 1782
45 Coloured engraving—"Attacking the Fortress," by Lucas
46 Circular coloured engraving—"The Harvester," by H. Mole
47 Coloured engraving—"The Farmer's Boy"
48 Ditto—"The Infant Bacchus," by R. Westall, R.A., 1804
49 Oil painting—Landscape with Herdsman and Cattle
50 Another—"Birds"
51 Another—Portrait of a Gentleman
52 Another of an Artist
53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

55 Thornton-Pickard ½-plate camera, slides, stand and case

56 A 10 by 8 copying camera, 2 slides

57 Billcliffe midget camera, lens and stand

58 Billcliffe vertical enlarger with condenser

59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case

60 Twenty-four printing frames, ½-plate

61 Six lenses

62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack

63 Goerz-Anschutz 5 by 4 focal plane folding camera; the favourite pressman's model fitted with Goerz Dagor 6·8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes; in leather case

64 A ¼-plate folding camera with Rodenstock aplanat 7·7 lens, film pack adapter, 3 metal plate-holders; canvas case

65 A 5 by 4 Ray camera, Beck Isostigmar lens F/5·8, six slides and leather case

66 No. 3 folding pocket Kodak, ¼-plate, for roll films, rapid rectilinear lens, T.B. and I. shutter; good condition

67 Ensign ¼-plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet

68 No. 1A folding pocket Kodak, closed front model, black bellows

69 Pair powerful field-glasses, in case

70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses

71 *Watson's 5 by 4 Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*

72 Fine 10-lens leather-covered powerful field-glasses, in tan case

73 Fine 3-draw leather-covered telescope with case

74 Small microscope in case

75 Fine student's microscope with ¼-in. and ½-in. objectives, 2 eyepieces, bull's-eye condenser ; in mahogany case, splendid order

76 A pair of powerful field-glasses

77 Strong 4-fold wooden tripod with top

78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model

79 No. 3 Cartridge Kodak ¼-plate for roll films or plates, double extension, Goerz anastigmat lens F/6·8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model

80 No. 3 folding Brownie ¼-plate for roll films ; as new

81 A ¼-plate magazine camera

82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter ; leather case

83 Vest pocket Kodak, fine 6·9 anastigmat lens ; just cost £6

84 Twelve No. 1 Brownie spools ; date just expired but quite perfect

85 Small powerful telescope

86 No. 1 box Brownie with view finder

87 No. 1 Ensignette in case, as new

88 Vest pocket Kodak with fine F/6·9 anastigmat lens in case

89 *Postcard and* 10 *by* 15*cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F/*4·5, 6-*in. focus, compound shutter,* 2 *slides and film pack adapter*

90 Shew folding Eclipse ¼-plate camera, fine rapid rectilinear lens, 3 double dark slides

91 Fine compound microscope with 2 objectives, in mahogany case

92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5·7, speeded shutter, leather case

93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6·3, speeded shutter

94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6·3, leather case

95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6·3, focal plane shutter

96 A $\frac{1}{4}$-plate folding camera, double extension Goerz Dagor lens F/6·8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter

97 No. 3 folding Kodak $\frac{1}{4}$-plate, very late model; fine condition

98 A $\frac{1}{4}$-plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$-plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case

99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case; make a fine studio outfit

100 Carbine $\frac{1}{4}$-plate roll film camera, will also take plates; Beck rapid rectilinear lens, speeded shutter

101 Goerz Dagor anastigmat lens, F/6·8, 6-in. focus in automat fully speeded shutter

102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case

103 Fine lens for $\frac{1}{2}$-plate enlarger

104 Hume's $\frac{1}{4}$-plate Cantilever enlarger for artificial light, with illuminant

105 A No. 3 folding pocket Kodak for $\frac{1}{4}$-plate roll films

106 Holborn $\frac{1}{4}$-plate magazine camera, fine F/7·7 lens, for 12 plates

107 A No. 2 folding Kodak for $3\frac{1}{2}$-in. square pictures (lantern slide size), in leather case

108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$-in. objectives and 2 eyepieces, in mahogany case

109 A Negretti & Zambra's $\frac{1}{12}$in. oil immersion microscope objective

110 *A Zeiss Minimum Palmos* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$-plate with carriers, Zeiss Tessar lens, F/4·5, focal plane shutter, 3 double dark slides, and folding pack adapter

111 A No. 2 Brownie box-form camera and canvas case

112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter

113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6·8, speeded shutter

114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front

115 A No. 1 box Brownie view finder and a canvas case

116 A vest pocket Kodak in leather case

117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter

118 Pair of powerful field-glasses in case

119 Pair of Lemaire binoculars in leather case

120 A No. 1A folding pocket Kodak, late closed front model, black bellows

121 A magazine camera, $\frac{1}{4}$-plate, fine lens, magnifiers, etc.

122 A ditto

123 Benetfink's lightning $\frac{1}{4}$-plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new

124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case

125 A 3A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case

126 Toy microscope in case

127 A Beck compound microscope, $\frac{1}{4}$-in. and 1-in. objectives, eyepiece, and case

128	Two boxes microscopic slides, about 150 assorted subjects
129	Two small single lenses
130	A Ross Goerz double anastigmat lens, F/6·8, in fully speeded unicum shutter, 5in. focus
131	400 P.O.P. postcards
132	400 ditto
133	400 ditto
134	400 ditto
135	400 ditto
136	400 ditto
137	Five ¼-plate Goerz film packs, dated Feb. 1921, cost 22/6
138	Six 9 by 12cm. Goerz film packs, cost 34/–
139	Six ditto
140	Six ditto
141	Six ditto
142	Stereo Weno stereoscopic roll film camera, full size, fine rapid rectilinear lens, leather case ; practically as new
143	Small microscope in case, old fashioned but very effective
144	Photo Jumelle 3½ by 2½ Stereoscopic Co.'s magazine camera, fitted with Kraüss Zeiss Tessar lenses, F/6·3, in tan leather case
145	Watson's 6x prism binoculars, eyepieces separate focusing, bending bar, leather case
146	Fine pair Hunsicker & Alexis prism binoculars, 8 magnification eyepiece focusing, tan leather case
147	Negretti & Zambra's 8x stereo prism binoculars, central focusing, eyepiece adjustment, leather case ; fine
148	A Richard's glyphoscope stereoscopic camera, complete with 12 slides and leather case
149	A Thornton-Pickard Ideal ¼-plate folding camera, fine lens, 2 slides, and case
150	Nine Thornton-Pickard ¼-plate single slides
151	A ¼-plate magazine camera for plates

152 A metal telescopic tripod

153 A $\frac{1}{4}$-plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens

154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new

155 Polished walnut stereoscope on stand, with coloured and other views

156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder

157 Fine $\frac{1}{2}$-plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod

158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new

159 *Ensign Popular Pressman Reflex $\frac{1}{4}$-plate, double extension, Ross Xpress lens, F/4·5, focal plane shutter, and 6 single slides*

160 Holborn Ilex magazine camera, $\frac{1}{4}$-plate focusing model, Aldis Plano anastigmat lens, F/6·8, speeded shutter, brilliant finders, in splendid condition

160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking interocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$in., and $\frac{1}{6}$in., stage forceps, live box and stage bull's-eye condenser, in case

162 Beck $\frac{1}{4}$in. objective for use with binocular

163 A ditto $\frac{1}{6}$in. ditto

164 A ditto $\frac{1}{10}$in. (immersion) ditto

165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$in., $\frac{1}{6}$in., and $\frac{1}{12}$in. oil immersion

166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case

167 Swift portable binocular, 2 eyepieces, spot lens and polariscope

168 Swift spot lens with centering adjustment

169 Watson projection eyepiece

170 Gundlach $\frac{1}{16}$in. immersion objective, with correction collar

171 Watson $\frac{1}{12}$in. oil immersion for metallurgical work

172 Wray $\frac{1}{4}$in. objective

173 Triple nosepieces

174 Micro lamp in case

175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{12}$in. oil immersion

176 Blood counter, after Thoma

177 Zeiss projection eyepiece

178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case

179 Zeiss apochromatic objective, 1·5mm. oil immersion

180 Compensating eyepiece by Baker

181 Zeiss 16mm. apochromatic objective

182 A No. 12 compensating eyepiece

183 Abbé condenser with iris diaphragm

184 Zeiss 4mm. apochromatic, with correction collar

185	Zeiss condensing lens, with iris diaphragm, in gimbals
186	A 3-in. objective by Ross
187	Dollond student microscope, rack coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser on stand, complete in case
188	Dissecting microscope with rack, 3 lenses, turntable, erecting eyepiece and triple objective, complete in case
189	Micro lamp, complete in case
190	Swift student microscope, rack coarse and micrometer fine adjustment, racking and centering sub- stagewith Abbé condenser and iris, double nosepiece, 2 eyepieces, $\frac{2}{3}$in. and $\frac{1}{6}$in. objectives, sliding polariscope in body, and swing out analyser
191	Box of rock specimens in 4 trays, by Gregory
192	Blood counter in case
193	Microscopic air pump, complete with bell, on stand
194	Crouch monocular microscope, rack coarse and micrometer fine adjustment, eyepiece, 1in. and $\frac{1}{4}$in. objectives
195	A $3\frac{1}{2}$-in. telescope by Tulley, finder and steady rods, 1 day, 2 astro eyepieces, with equatorial head, in case, and tall outdoor stand
196	Equatorial head on tall outdoor stand
197	Cooke's sun-diagonal
198	Set 4 achromatic eyepieces by Browning, in case
199	Dent's meridian instrument
200	A $3\frac{1}{4}$-in. telescope by Jones, with finder, 2 astro eyepieces, 2 day ditto, on equatorial head with slow motions, on tall stand
201A	Single prism table spectroscope
202A	Recording barometer
203A	Faber 10-in. slide rule

204A	Case of drawing instruments and board
205A	A ditto
206A	A ditto
207A	Box of railway curves
208A	Biunial lantern with dissolver
209A	Two limelight jets
210A	A graphoscope (folding)
211A	A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet; this is a very fine instrument
212A	Steward microscope, 2 objectives, mechanical stage, in mahogany case

The Second Portion of the Collection of MICROSCOPES and ACCESSORIES, formed by the late Sir Frank Crisp, Bt.

201	*Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws; fitted with a pair of "A" capped eyepieces; by Watson & Sons*
202	An "A" objective, by Zeiss
203	A 1-in. and $\frac{1}{2}$-in. objective, by Tulley
204	No. 10 immersion objective, by Verick
205	Two objectives in cases
206	Three various objectives
207	Objective with lieberkuhn, and 4 others
208	Zengers' $\frac{1}{50}$-in. endo-immersion
209	Hasert's $\frac{1}{16}$-in. immersion, and another
210	Three objectives
211	A $\frac{1}{4}$-in. objective with correction collar, by Nobert
212	A mounted double mirror on stand, and an expensively mounted prism
213	A 4-in. double bull's-eye stand condenser

214 Two bull's-eye stand condensers
215 An adjustable microscope lamp by Baker, with metal chimney
216 Fidden's improved portable microscope lamp
217 Schafer's thermo-regulator with glass and mercury
218 Abbé test plate mounted in brass, by Zeiss, and a Maltwood finder in case
219 A goniometer stage and a tilting stage, by Watson
220 A revolving stage, another on ball and socket, revolving object holder and 2 others
221 An expensively made micro-spectroscope fitted with comparison mirrors
222 An expensively-made micrometer eyepiece, by Hartnack & Co., and another micrometer eyepiece
223 An expensively made rack revolving goniometer with crystal stage
224 Oberhausser's horizontal camera lucida
225 Sub-stage condenser fitted in rack adjusting under-stage, and a case of dark wells, both by Beck
226 A camera lucida fitted to eyepiece, 2 by Chevalier, and 2 others
227 Three nose-pieces and 2 pairs of safety rings
228 Two hot stages, 2 frog plates and a compressor
229 A binocular eyepiece by Hartnack, fitted with a pair of eyepieces, and another by Tolles fitted with a pair of eyepieces
230 Ten various single nose-pieces
231 Two micrometer eyepieces, a calliper eyepiece, and an eyepiece ruled in squares
232 An expensively made comparison micrometer eyepiece by Nachet
233 An expensively mounted drawing prism
234 A binocular eyepiece by Verick, fitted with 2 eyepieces

235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions

236 Three hot stages

237 Three hot stages and an electric stage

238 An expensively made goniometer stage with divided circles

239 Five compressors

240 Five ditto

241 A blood-testing set by Zeiss, another by Verick, and another

242 Nine various eyepieces

243 *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated,* rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross

244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces

245 *Stephenson's erecting binocular microscope,* rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London

246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens

247 Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris

248 Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser

249 An Abbé condenser by Zeiss in sub-stage fitting

250 Stephenson's illuminator and 3 understage condensers

251	Three kettle-drum condensers by Ross, and a Kingsley illuminator
252	A Nachet prism, Wenham's reflex illuminator, and 3 other prism illuminators
253	A Webster condenser, Wallach's condenser, spot lens, and 2 other condensers
254	Beck's tadpole condenser and another by Beck
255	Eight various diaphragms and under-stage fittings
256	Multiple colour spot lens, 2 mounted prisms, a mounted mirror and 2 other fittings
257	Two silver side reflectors, a paraboloid and a mounted lens
258	Two under-stage condensers, spot lens with iris diaphragm, revolving polariscope, and a centering sub-stage fitted, by Beck
259	Two large mounted prisms, a mounted mirror and 2 stage bull's-eyes
260	Draw tube fitted with erector, a goniometer eyepiece, divided circle and analysing prism
261	Set of Darker swing-out selenites and a revolving polariscope
262	An apertometer, by Zeiss
263	A polarising bundle, a polariscope and a mounted prism
264	Swift's best sub-stage condenser with revolving polariscope and centering screws
265	An expensively made patent petrological microscope by Swift, with graduated revolving polariscope and analyser, graduated fine adjustment, rack coarse adjustment and moveable selenite plate, etc.
266	An expensively made micrometer microscope, fitted with micrometer stage, graduated, and a Ramsden's micrometer eyepiece
267	A bacteriological microscope, rack coarse adjustment, micrometer screw fine adjustment, by Hartnack

268 Bausch & Lomb's laboratory microscope; can be used either inverted or as an ordinary microscope

269 Student's microscope by Reichert

270 A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage

271 A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment

272 An expensively made theodolite microscope, with levelling screws and divided in silver

273 Horizontal microscope with glass rotating stage, fitted with objective and eyepiece

274 An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece

275 A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror

276 A sub-stage condenser with centering screws; another condenser and 2 others

277 An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline

278 Expensive model of the human eye, another model, and a model with lens on stand

279 Pseudoscope in case, and a direct vision spectroscope with adjustable slit; and comparison prism by Browning

279A A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus

280 An expensively made pair of prisms on stand showing the recomposition of light

281 Expensively made stand for a pseudoscope and a Newton ring apparatus

282 A small level and a Bunsen burner

283 A telescope with stand and other fittings in case

284 Albertottie's micrometer microscope with rack revolving micrometer scale, divided in silver, made by Bartels & Diederichs

285 Student's microscope by Bausch & Lomb, rack coarse adjustment, micrometer fine adjustment

286 Ditto, ditto

287 Portable microscope with eyepiece, in glass-topped case

288 Artificial model of eye, and a large mounted mirror on stand with ball and socket movements

289 Set of high-power achromatic magnifiers with holder, by Steinheil

290 A press showing the polarising effect of stress in glass cubes, and another for bars, by Hoffman, Paris

291 Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers

292 *Presentation binocular microscope by Tolles*, rack adjustment for width of eyes, mechanical micrometer goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces

293 Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces

294 Presentation binocular by Zentmayer, rotating goniometer stage, rack adjusting sub-stage, rack coarse adjustment, graduated fine adjustment; instrument rotates on the base, which is graduated

295 Ten various eyepieces

296 Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece

297 Demonstration microscope fitted with eyepiece and objective; and another with eyepiece

298 Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece; and another

299 Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage

300 Demonstration microscope on stand, with eyepiece and objective, by Chevalier

301 McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece

302 Portable microscope by Verick

303 Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case

304 Student's microscope with folding foot

305 Student's microscope, rack coarse adjustment and Wales' form of inclination

306 Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand

307 Dissecting microscope with 3 powers on stand, another with 3 powers, and another

308 A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye

309 Dissecting microscope with 3 powers, and Huxley's dissecting microscope

310 Trichina microscope, revolving glass stage with rack adjustment

311 Microscope with large micrometer stage and screw adjustments

312 Four small microscopes

313 An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross; fitted with a pair of "B" eyepieces

314 An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment

315 Two student's microscopes, rack coarse adjustments

316 Portable microscope by Collins, and a small ditto

317 Two student's microscopes with rack adjustments

318 Student's microscope by Ladd, rack adjustment

319 Bacteriological microscope, by Bethle & Rexroth

320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective

321 Stein's electric light microscope fitted with lamps and resistances

322 Portable microscope by Baker, and eyepiece, in leather case with straps

323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, ¼in. with lieberkuhn, ½-in. correction collar, etc., in case

324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer

325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye

326 Student's microscope fitted with swing-out sub-stage and Abbé condenser

327 Biological microscope fitted with extra large stage, by Schmidt & Haemsch

328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective

329 Lossener's combined microscope and telescope with tripod stand

330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser

331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes

332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser ; by Nachet

333 A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*

334 A binocular microscope by Beck, for the examination of large objects

335 Five small microscopes

336 A small microscope on stand, and 3 others

337 A Leiter's stomach microscope

338 A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris

339 A Geneva Co.'s calliper microscope with graduated scale

340 An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions

341 An expensively made microscope for the investigation of objects under the air pump, with table clamp

342 An expensively made microscope for the investigation of Newton's rings, with micrometer movements

343 A dissecting microscope and a microscope lamp, by R. & J. Beck

344 A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver

345 Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements

346 Aquarium microscope with outer glass tube, and rack coarse adjustment

347 An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

348 A horizontal microscope by Chevalier, and brass stand

349 An expensively made lens holder on stand, with rack adjustment, and a microscope by Murray & Heath

350 An inverted chemical microscope by Nachet

351 A vibration microscope, fitted with rack adjustment, eyepiece, objective and tuning fork

352 An expensively made reading microscope, fitted with micrometer, divided on silver, and prismatic eyepieces

353 A binocular microscope by Smith & Beck (A.F.)

354 An inverted chemical microscope by Nachet

355 An expensively made micrometer reading microscope by the Cambridge Scientific Instrument Co.

356 Aquarium micro cope on stand, fitted with eyepiece and objective

357 A comparison microscope with graduated movements to the stage

358 A Wasserlein saccharometer microscope, fitted with bi-quartz

359 A reading microscope with micrometer, screw motions, in horizontal directions, by Plossl, and a carrier for a reading microscope

360 An aquarium tank on stand by Klonne & Muller, and a bull's-eye condenser, no stand

361 An aquarium microscope, a lens holder on stand, and an aquarium on stand

362 An expensively made binocular examination microscope with graduated rack adjustment to eyepieces, and graduated coarse adjustment, reading by vernier, by C. G. Collin, Stockholm

363 An inverted chemical microscope by Nachet, adjusting swing-out sub-stage with condensing lens, micrometer movements to the stage

364 A large bull's-eye stand condenser, 4-in. lens

365 A microscope lamp, fitted with bull's-eye condenser and sterilizer

366 A bull's-eye stand condenser, 3-in. lens

367 Two ditto

368 An inverted microscope by Nachet

369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens

370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye

371 A projection microscope on ornamental stand

372 An horizontal microscope by Nachet, fitted with eyepiece and powers

373 A large 4-in. lamp and condenser in brass mount, with slide holder

374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs

375 An expensively made heliostat

376 A microscope table with revolving casters

377 An expensively mounted tuning fork, to show vibrations in microscope

378 A fitted microscope case with microscope tubes, and other sundries

379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries

380 Seventeen small seed microscopes

381 Fourteen seed and other small microscopes

382 Fifteen seed and botanical microscopes

383 Nine Coddington and other hand magnifiers

384 Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles

385 Fifteen small hand microscopes

386 Twenty ditto magnifiers, etc.

387 Twenty-two various small magnifiers, in 2 cases

388 A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case

389 Two trichinoscope, a small compass microscope, a binocular hand magnifier, and a small microscope in case
390 A focusing glass by Ross, and another
391 Three dozen slides—various
392 Ditto
393 Ditto
394 Sixteen fine test diatoms, and 17 others
395 Three dozen sections of shells, pearls, etc.
396 Three dozen insects, etc., by Enoch, Topping, and other good mounters
397 Thirty fine insect and insect parts, including the scarce fairy fly, by Enoch and other good mounters
398 Thirty-eight insect parts, and various
399 Forty-one large insect parts and botanical
400 Twenty-eight various and 6 large injected slides
401 Two dozen large injected slides
402 Nineteen fine coal sections
403 Four rock sections, including 2 of the scarce Eozoon Canadense and 36 others, including scarce platino cyanides, and other polarising salts
404 Thirty-one slides, various, by Enoch and others
405 Twenty-four test diatoms
406 Eight choice exhibition slides
407 Two dozen exhibition objects, in case
408 Eight choice slides showing the anatomy of the insect on one slide
409 A scarce diamond writing at the rate of 12 bibles to the inch, and another
410 A ditto
411 A scarce diamond writing at the rate of 13 bibles to the inch
412 A scarce diamond writing at the rate of 14 bibles to the inch, and another 16 bibles to the inch
413 A scarce diamond writing at the rate of 15 bibles to the inch, and another 10 bibles to the inch
414 A scarce diamond writing at the rate of 47 bibles to the inch

415 Noberts' ruling 11 bands, *now very scarce*
416 Ditto, 17 ditto
417 Ditto, 19 ditto
418 Ditto, 20 ditto

Another Property.

419 *Binocular microscope by Watson, "Edinburgh Students' Model," with* 2 *B and* 1 *C eyepieces, 1-in. and* $\frac{1}{6}$*-in. objectives, by Watson, and a* $\frac{1}{12}$*-in. ditto by Powell & Lealand;* coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, *Abbê* condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (*perfect condition*)
420 Microscopic lamp with bull's-eye, in case
421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
422 Forty-three well mounted micro slides, contents of 2 drawers
423 Forty-eight ditto
424 A ditto lot
425 Sixty ditto, contents of 3 drawers
426 A Morton's opthalmoscope in case
427 Old medical book with coloured illustrations
428 An air pump with glass shade
429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
430 Pair Carl Zeiss prismatic binoculars, 8x, in case
431 An electric copper kettle, $1\frac{1}{2}$ pints, 200-210 volts, complete with flexible and adapter; perfect order
432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
433 A 4-volt 40 amp. "Ever Ready" ditto
434 An 8-volt 30 amp. accumulator, charged

435	Three 2-volt 100 amp. "Lucas," charged
436	Half-dozen 4-volt 4 amp. "King Eton," new
437	Half-dozen 4-volt 4 amp. ditto, ditto
438	Half-dozen 4-volt 4 amp. ditto, ditto

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and Curios from Omdurman, the Property of an Officer.

Chinese and Japanese Porcelain ; Ivories ; Bronzes ; Native Curios, etc.

THURSDAY, NOVEMBER 18th, and FRIDAY, NOVEMBER 19th :—

Scientific and Photographic Apparatus ; Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also Cabinets, being the Collections of Captain Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and Roman Antiquities.

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND PHOTOGRAPHIC APPARATUS AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes Microscopes, Telescopes, Cameras, Lenses, Lanterns, Cinematographs, Theodolites and Levels, and every class of Scientific Instrument; Lathes and Tools, Furniture, Silver Plate, Jewellery, Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES, ARMS AND ARMOUR, IVORIES, ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to Entomology, Ornithology, Conchology, Minerals, Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London." Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

Annotated Catalogue
Crisp Coll

Phone : Gerrard 1824. Sale No. 13,221.

Sale to commence at **12.30** *o'clock.*

FRIDAY, NOVEMBER 12th, 1920.

A CATALOGUE OF

Scientific and Photographic Apparatus

INCLUDING

The Second Portion of the Celebrated Collection of

MICROSCOPES and ACCESSORIES,

formed by the late Sir Frank Crisp, Bart.;

Valuable Cameras and Lenses,

by first-rate makers;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On FRIDAY, NOVEMBER 12th, 1920,

At **12.30** *o'clock.*

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address: AUKS, RAND, LONDON. **Established 1760.**

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

*** *Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques

A CHARGE FOR WAREHOUSING WILL BE MADE ON LOTS NOT CLEARED PROMPTLY.

Telephone :— GERRARD, 1824.

Telegrams :— AUKS, RAND.

A CATALOGUE

Friday, November 12th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
1	Handsome papier-mâché writing box, inlaid with pearl
2	Pair of handsome bronze vases with figures on marble stands, with liners
3	*An* 18-*carat gold chronometer watch*, by Sharp, Dublin, in case; in going order and regulated
4	Mark V. aircraft watch, highest grade, detached lever, 15-jewel movement, Breguet spring, non-magnetic compensated balance, 3 positions synchronised, with dashboard holder or for pocket; guaranteed perfect
5	Ditto, less holder
6	An 8-day fully luminous Mark IV. A., ditto, same specification
7	An 8-day non-luminous ditto
8	Coney seal coat, as new
9	Ditto

10	Coney seal coat with skunk opossum collar
11	Six gramophone motors, complete with turntable and winding key
14	Hornless gramophone with lid and doors, in perfect condition
15	Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
16	Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
17	Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
18	Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
19	Microscope, rack and fine adjustment, 2 powers, in case
20	Plated tray and 2 ditto boxes
21	Two lady's umbrellas
22	Six spoons, 6 forks and tea tray
23	Pair of photo frames
24	Six knives, 6 forks and 6 spoons
25	Set of 5 aluminium saucepans with lids
26	Electric battery with fitting in mahogany case, perfect order and condition
27	Binocular microscope in mahogany case, with eyepieces, objectives, etc.
28	No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
29	Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
30	No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
31	Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
32	Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

33 A large collection of stamps in improved album
34 Two albums and quantity of stamps
35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc. ; a useful lot
36 Engraving by Bartolozzi after Hamilton—"Edmund Keene as Richard III.," framed and glazed
37 Oil painting in gilt frame—"Shipping"
38 Three large water-colour drawings, framed
39 Five small ditto
40 Oil painting in gilt frame and a pen and ink drawing
41 Two coloured engravings in black and gilt frames, a sepia engraving—"Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
42 Two engravings—Horses, by Stubbs, Anvil and Godolphin; old print, coloured—"Race over the Beacon Course, Newmarket, 1770"
43 Another—"Bay Malton beating Gimcrack"
44 A coloured oval in sepia—Duchess of Devonshire, 1782
45 Coloured engraving—"Attacking the Fortress," by Lucas
46 Circular coloured engraving—"The Harvester," by H. Mole
47 Coloured engraving—"The Farmer's Boy"
48 Ditto—"The Infant Bacchus," by R. Westall, R.A., 1804
49 Oil painting—Landscape with Herdsman and Cattle
50 Another—"Birds"
51 Another—Portrait of a Gentleman
52 Another of an Artist
53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

55 Thornton-Pickard ½-plate camera, slides, stand and case

56 A 10 by 8 copying camera, 2 slides

57 Billcliffe midget camera, lens and stand

58 Billcliffe vertical enlarger with condenser

59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case

60 Twenty-four printing frames, ½-plate

61 Six lenses

62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack

63 Goerz-Anschutz 5 by 4 focal plane folding camera; the favourite pressman's model fitted with Goerz Dagor 6·8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes; in leather case

64 A ¼-plate folding camera with Rodenstock aplanat 7·7 lens, film pack adapter, 3 metal plate-holders; canvas case

65 A 5 by 4 Ray camera, Beck Isostigmar lens F/5·8, six slides and leather case

66 No. 3 folding pocket Kodak, ¼-plate, for roll films, rapid rectilinear lens, T.B. and I. shutter; good condition

67 Ensign ¼-plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet

68 No. 1A folding pocket Kodak, closed front model, black bellows

69 Pair powerful field-glasses, in case

70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses

71 *Watson's 5 by 4 Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*

72 Fine 10-lens leather-covered powerful field-glasses, in tan case

73 Fine 3-draw leather-covered telescope with case

74 Small microscope in case

75 Fine student's microscope with ¼-in. and ½-in. objectives, 2 eyepieces, bull's-eye condenser ; in mahogany case, splendid order

76 A pair of powerful field-glasses

77 Strong 4-fold wooden tripod with top

78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model

79 No. 3 Cartridge Kodak ¼-plate for roll films or plates, double extension, Goerz anastigmat lens F/6·8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model

80 No. 3 folding Brownie ¼-plate for roll films ; as new

81 A ¼-plate magazine camera

82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter ; leather case

83 Vest pocket Kodak, fine 6·9 anastigmat lens ; just cost £6

84 Twelve No. 1 Brownie spools ; date just expired but quite perfect

85 Small powerful telescope

86 No. 1 box Brownie with view finder

87 No. 1 Ensignette in case, as new

88 Vest pocket Kodak with fine F/6·9 anastigmat lens in case

89 *Postcard and* 10 *by* 15*cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F/*4·5, 6*-in. focus, compound shutter,* 2 *slides and film pack adapter*

90 Shew folding Eclipse ¼-plate camera, fine rapid rectilinear lens, 3 double dark slides

91 Fine compound microscope with 2 objectives, in mahogany case

92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5·7, speeded shutter, leather case

93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6·3, speeded shutter

94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6·3, leather case

95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6·3, focal plane shutter

96 A $\frac{1}{4}$-plate folding camera, double extension Goerz Dagor lens F/6·8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter

97 No. 3 folding Kodak $\frac{1}{4}$-plate, very late model; fine condition

98 A $\frac{1}{4}$-plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$-plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case

99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case; make a fine studio outfit

100 Carbine $\frac{1}{4}$-plate roll film camera, will also take plates; Beck rapid rectilinear lens, speeded shutter

101 Goerz Dagor anastigmat lens, F/6·8, 6-in. focus in automat fully speeded shutter

102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case

103 Fine lens for $\frac{1}{2}$-plate enlarger

104 Hume's $\frac{1}{4}$-plate Cantilever enlarger for artificial light, with illuminant

105 A No. 3 folding pocket Kodak for $\frac{1}{4}$-plate roll films

106 Holborn $\frac{1}{4}$-plate magazine camera, fine F/7·7 lens, for 12 plates

107 A No. 2 folding Kodak for $3\frac{1}{2}$-in. square pictures (lantern slide size), in leather case

108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$-in. objectives and 2 eyepieces, in mahogany case

109 A Negretti & Zambra's $\frac{1}{12}$in. oil immersion microscope objective

110 *A Zeiss Minimum Palmos* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$-plate with carriers, Zeiss Tessar lens, F/4·5, focal plane shutter, 3 double dark slides, and folding pack adapter

111 A No. 2 Brownie box-form camera and canvas case

112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter

113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6·8, speeded shutter

114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front

115 A No. 1 box Brownie view finder and a canvas case

116 A vest pocket Kodak in leather case

117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter

118 Pair of powerful field-glasses in case

119 Pair of Lemaire binoculars in leather case

120 A No. 1A folding pocket Kodak, late closed front model, black bellows

121 A magazine camera, $\frac{1}{4}$-plate, fine lens, magnifiers, etc.

122 A ditto

123 Benetfink's lightning $\frac{1}{4}$-plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new

124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case

125 A 3A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case

126 Toy microscope in case

127 A Beck compound microscope, $\frac{1}{4}$-in. and 1-in. objectives, eyepiece, and case

128 Two boxes microscopic slides, about 150 assorted subjects
129 Two small single lenses
130 A Ross Goerz double anastigmat lens, F/6·8, in fully speeded unicum shutter, 5in. focus
131 400 P.O.P. postcards
132 400 ditto
133 400 ditto
134 400 ditto
135 400 ditto
136 400 ditto
137 Five ¼-plate Goerz film packs, dated Feb. 1921, cost 22/6
138 Six 9 by 12cm. Goerz film packs, cost 34/–
139 Six ditto
140 Six ditto
141 Six ditto
142 Stereo Weno stereoscopic roll film camera, full size, fine rapid rectilinear lens, leather case ; practically as new
143 Small microscope in case, old fashioned but very effective
144 Photo Jumelle 3½ by 2½ Stereoscopic Co.'s magazine camera, fitted with Krauss Zeiss Tessar lenses, F/6·3, in tan leather case
145 Watson's 6x prism binoculars, eyepieces separate focusing, bending bar, leather case
146 Fine pair Hunsicker & Alexis prism binoculars, 8 magnification eyepiece focusing, tan leather case
147 Negretti & Zambra's 8x stereo prism binoculars, central focusing, eyepiece adjustment, leather case ; fine
148 A Richard's glyphoscope stereoscopic camera, complete with 12 slides and leather case
149 A Thornton-Pickard Ideal ¼-plate folding camera, fine lens, 2 slides, and case
150 Nine Thornton-Pickard ¼-plate single slides
151 A ¼-plate magazine camera for plates

152 A metal telescopic tripod

153 A $\frac{1}{4}$-plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens

154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new

155 Polished walnut stereoscope on stand, with coloured and other views

156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder

157 Fine $\frac{1}{2}$-plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod

158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new

159 *Ensign Popular Pressman Reflex $\frac{1}{4}$-plate, double extension, Ross Xpress lens, F/4·5, focal plane shutter, and 6 single slides*

160 Holborn Ilex magazine camera, $\frac{1}{4}$-plate focusing model, Aldis Plano anastigmat lens, F/6·8, speeded shutter, brilliant finders, in splendid condition

160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking interocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$in., and $\frac{1}{5}$in., stage forceps, live box and stage bull's-eye condenser, in case

162 Beck $\frac{1}{4}$in. objective for use with binocular

163 A ditto $\frac{1}{6}$in. ditto

164 A ditto $\frac{1}{10}$in. (immersion) ditto

165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$in., $\frac{1}{6}$in., and $\frac{1}{12}$in. oil immersion

166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case

167 Swift portable binocular, 2 eyepieces, spot lens and polariscope

168 Swift spot lens with centering adjustment

169 Watson projection eyepiece

170 Gundlach $\frac{1}{16}$in. immersion objective, with correction collar

171 Watson $\frac{1}{12}$in. oil immersion for metallurgical work

172 Wray $\frac{1}{4}$in. objective

173 Triple nosepieces

174 Micro lamp in case

175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{12}$in. oil immersion

176 Blood counter, after Thoma

177 Zeiss projection eyepiece

178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case

179 Zeiss apochromatic objective, 1·5mm. oil immersion

180 Compensating eyepiece by Baker

181 Zeiss 16mm. apochromatic objective

182 A No. 12 compensating eyepiece

183 Abbé condenser with iris diaphragm

184 Zeiss 4mm. apochromatic, with correction collar

185 Zeiss condensing lens, with iris diaphragm, in gimbals

186 A 3-in. objective by Ross

187 Dollond student microscope, rack coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser on stand, complete in case

188 Dissecting microscope with rack, 3 lenses, turntable, erecting eyepiece and triple objective, complete in case

189 Micro lamp, complete in case

190 Swift student microscope, rack coarse and micrometer fine adjustment, racking and centering sub- stagewith Abbé condenser and iris, double nosepiece, 2 eyepieces, $\frac{2}{3}$in. and $\frac{1}{6}$in. objectives, sliding polariscope in body, and swing out analyser

191 Box of rock specimens in 4 trays, by Gregory

192 Blood counter in case

193 Microscopic air pump, complete with bell, on stand

194 Crouch monocular microscope, rack coarse and micrometer fine adjustment, eyepiece, 1in. and $\frac{1}{4}$in. objectives

195 A $3\frac{1}{2}$-in. telescope by Tulley, finder and steady rods, 1 day, 2 astro eyepieces, with equatorial head, in case, and tall outdoor stand

196 Equatorial head on tall outdoor stand

197 Cooke's sun-diagonal

198 Set 4 achromatic eyepieces by Browning, in case

199 Dent's meridian instrument

200 A $3\frac{1}{4}$-in. telescope by Jones, with finder, 2 astro eyepieces, 2 day ditto, on equatorial head with slow motions, on tall stand

201A Single prism table spectroscope

202A Recording barometer

203A Faber 10-in. slide rule

204A Case of drawing instruments and board
205A A ditto
206A A ditto
207A Box of railway curves
208A Biunial lantern with dissolver
209A Two limelight jets
210A A graphoscope (folding)
211A A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet; this is a very fine instrument
212A Steward microscope, 2 objectives, mechanical stage, in mahogany case

The Second Portion of the Collection of MICROSCOPES and ACCESSORIES, formed by the late Sir Frank Crisp, Bt.

7 201 *Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws; fitted with a pair of "A" capped eyepieces; by Watson & Sons*
202 An "A" objective, by Zeiss
203 A 1-in. and $\frac{1}{2}$-in. objective, by Tulley
204 No. 10 immersion objective, by Verick
205 Two objectives in cases
206 Three various objectives
207 Objective with lieberkuhn, and 4 others
208 Zengers' $\frac{1}{50}$-in. endo-immersion
209 Hasert's $\frac{1}{16}$-in. immersion, and another
210 Three objectives
211 A $\frac{1}{4}$-in. objective with correction collar, by Nobert
212 A mounted double mirror on stand, and an expensively mounted prism
213 A 4-in. double bull's-eye stand condenser

214 Two bull's-eye stand condensers
215 An adjustable microscope lamp by Baker, with metal chimney
216 Fidden's improved portable microscope lamp
217 Schafer's thermo-regulator with glass and mercury
218 Abbé test plate mounted in brass, by Zeiss, and a Maltwood finder in case
219 A goniometer stage and a tilting stage, by Watson
220 A revolving stage, another on ball and socket, revolving object holder and 2 others
221 An expensively made micro-spectroscope fitted with comparison mirrors
222 An expensively-made micrometer eyepiece, by Hartnack & Co., and another micrometer eyepiece
223 An expensively made rack revolving goniometer with crystal stage
224 Oberhausser's horizontal camera lucida
225 Sub-stage condenser fitted in rack adjusting under-stage, and a case of dark wells, both by Beck
226 A camera lucida fitted to eyepiece, 2 by Chevalier, and 2 others
227 Three nose-pieces and 2 pairs of safety rings
228 Two hot stages, 2 frog plates and a compressor
229 A binocular eyepiece by Hartnack, fitted with a pair of eyepieces, and another by Tolles fitted with a pair of eyepieces
230 Ten various single nose-pieces
231 Two micrometer eyepieces, a calliper eyepiece, and an eyepiece ruled in squares
232 An expensively made comparison micrometer eyepiece by Nachet
233 An expensively mounted drawing prism
234 A binocular eyepiece by Verick, fitted with 2 eyepieces

235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions

236 Three hot stages

237 Three hot stages and an electric stage

238 An expensively made goniometer stage with divided circles

239 Five compressors

240 Five ditto

241 A blood-testing set by Zeiss, another by Verick, and another

242 Nine various eyepieces

6. 243 *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated,* rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross

244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces

245 *Stephenson's erecting binocular microscope,* rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London

246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens

9. 247 Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris — made to the design of Dr. T. Pelletan

5. 248 Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser

249 An Abbé condenser by Zeiss in sub-stage fitting

250 Stephenson's illuminator and 3 under-stage condensers

247 Made to the design of Dr.T.Pelletan

266 Designed by Signor Goldferetti for examining the teeth of watches and other objects.

251 Three kettle-drum condensers by Ross, and a Kingsley illuminator

252 A Nachet prism, Wenham's reflex illuminator, and 3 other prism illuminators

253 A Webster condenser, Wallach's condenser, spot lens, and 2 other condensers

254 Beck's tadpole condenser and another by Beck

255 Eight various diaphragms and under-stage fittings

256 Multiple colour spot lens, 2 mounted prisms, a mounted mirror and 2 other fittings

257 Two silver side reflectors, a paraboloid and a mounted lens

258 Two under-stage condensers, spot lens with iris diaphragm, revolving polariscope, and a centering sub-stage fitted, by Beck

259 Two large mounted prisms, a mounted mirror and 2 stage bull's-eyes

260 Draw tube fitted with erector, a goniometer eyepiece, divided circle and analysing prism

261 Set of Darker swing-out selenites and a revolving polariscope

262 An apertometer, by Zeiss

263 A polarising bundle, a polariscope and a mounted prism

264 Swift's best sub-stage condenser with revolving polariscope and centering screws

265 An expensively made patent petrological microscope by Swift, with graduated revolving polariscope and analyser, graduated fine adjustment, rack coarse adjustment and moveable selenite plate, etc.

5. 266 An expensively made micrometer microscope, fitted with micrometer stage, graduated, and a Ramsden's micrometer eyepiece designed by Signor Golfarelli for examining the [illegible] & other objects

267 A bacteriological microscope, rack coarse adjustment, micrometer screw fine adjustment, by Hartnack

6.	268	Bausch & Lomb's laboratory microscope; can be used either inverted or as an ordinary microscope
	269	Student's microscope by Reichert
	270	A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage
	271	A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment
	272	An expensively made theodolite microscope, with levelling screws and divided in silver
70/-	273	Horizontal microscope with glass rotating stage, fitted with objective and eyepiece
8.	274	An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece
	275	A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror
	276	A sub-stage condenser with centering screws; another condenser and 2 others
6.	277	An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline
15/-	278	Expensive model of the human eye, another model, and a model with lens on stand
	279	Pseudoscope in case, and a direct vision spectroscope with adjustable slit; and comparison prism by Browning
	279A	A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus
	280	An expensively made pair of prisms on stand showing the recomposition of light
	281	Expensively made stand for a pseudoscope and a Newton ring apparatus
	282	A small level and a Bunsen burner
	283	A telescope with stand and other fittings in case

273 Designed by Dr. Peffer for very exact measurement; it is stated to read to the 100,000 of a m.m.

[illegible] adjustment.

[illegible] Ditto ditto

[illegible] Portable microscope with eyepiece, in glass-topped case.

[illegible] Achromatic medium eye and a large mounted mirror on stand with ball and socket movements.

289 Set of high-power achromatic magnifiers with holder, by Swinhoe.

290 A press showing the polarising effect of stress in glass plates, and another for bars, by Hoffman, Paris.

291 Mineral holder with graduated drum divided on silver, and a pair of tourmaline pieces.

292 *Presentation binocular microscope by Tolles*, rack adjustment for width of eyes, [illegible] and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces.

293 Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces.

[illegible] Presentation binocular by Zentmayer, [illegible]

[illegible] Expensively built reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece [illegible]

[illegible] Demonstration microscope fitted with eyepiece and objective; and another with eyepiece.

284 This beautiful and expensively made microscope of unusual design was designed to enable measurements to be made with the highest degree of accuracy by Professor Albertelli.

296 Dr. Lucay Duther's reading microscope for the examination of the skin, eye and also the growth of plants.

84/- 284 Albertottie's micrometer microscope with rack revolving micrometer scale, divided in silver, made by Bartels & Diederichs

285 Student's microscope by Bausch & Lomb, rack coarse adjustment, micrometer fine adjustment

286 Ditto, ditto

287 Portable microscope with eyepiece, in glass-topped case

35/- 288 Artificial model of eye, and a large mounted mirror on stand with ball and socket movements

289 Set of high-power achromatic magnifiers with holder, by Steinheil

290 A press showing the polarising effect of stress in glass cubes, and another for bars, by Hoffman, Paris

291 Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers

292 *Presentation binocular microscope by Tolles,* rack adjustment for width of eyes, mechanical micrometer goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces

6. 293 Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces

8. 294 Presentation binocular by Zentmayer, rotating goniometer stage, rack adjusting sub-stage, rack coarse adjustment, graduated fine adjustment; instrument rotates on the base, which is graduated

295 Ten various eyepieces

5. 296 Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece

297 Demonstration microscope fitted with eyepiece and objective; and another with eyepiece

298 Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece; and another

299 Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage

300 Demonstration microscope on stand, with eyepiece and objective, by Chevalier

6. 301 McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece

302 Portable microscope by Verick

303 Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case

304 Student's microscope with folding foot

305 Student's microscope, rack coarse adjustment and Wales' form of inclination

75/- 306 Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand

307 2 Dissecting microscope, ~~with 3 powers~~ on stand, ~~another with 3 powers, and another~~

6. 308 A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye

309 Dissecting microscope with 3 powers, and Huxley's dissecting microscope

95/- 310 Trichina microscope, revolving glass stage, with rack adjustment

95/- 311 Microscope with large micrometer stage and screw adjustments

312 Four small microscopes

5. 313 An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross; fitted with a pair of "B" eyepieces

314 An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment

315 Two student's microscopes, rack coarse adjustments

316 Portable microscope by Collins, and a small ditto

317 Two student's microscopes with rack adjustments

Designed for Class [illegible] to be [illegible] [illegible] this [illegible] allowed to [illegible] this [illegible] [illegible] for the [illegible]

A fine example of an [illegible] Medical Class Microscope

This is [illegible] Concealed microscope for examining the [illegible]

An interesting [illegible] Microscope

Interesting as [illegible] a Compressor [illegible] the object [illegible] the [illegible] that forms the [illegible]

311 This lens also designed by Mr. Beale the [illegible] & pointed out that the [illegible] Movement to the stage should be added.

298 Designed for class work etc by Dr. Beal, this is His second form.

299 This is remarkable for the locking arrangement to prevent misuse in class work.

301 A fine example of an American class microscope.

306 This is Nachet's corneal microscope for examining the cornea of eye etc.

308 An interesting very rare form of dissecting microscope.

310 Interesting as being a compressor and a microscope combined; the object was placed between the two plates that form the stage.

311 This was also designed to systematically search the section of port for Trichnia the ingenious movement to the stage should

321 Very interesting and rare form of microscope.

328 A very fine Museum microscope with all movements for exhibition; one of the best of its kind.

330 Prof.Primsheard's arrangement for viewing living objects at all temperatures; very rare form.

318 Student's microscope by Ladd, rack adjustment

319 Bacteriological microscope, by Bethle & Rexroth

320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective

5. 321 Stein's electric light microscope fitted with lamps and resistances

322 Portable microscope by Baker, and eyepiece, in leather case with straps

323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, ¼in. with lieberkuhn, ½-in. correction collar, etc., in case

324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer

6. 325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye

326 Student's microscope fitted with swing-out sub-stage and Abbé condenser

327 Biological microscope fitted with extra large stage, by Schmidt & Haemsch

12. 328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective

329 Lossener's combined microscope and telescope with tripod stand

8. 330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser

331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes

332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser; by Nachet

10. 333 A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*

5. 334 A binocular microscope by Beck, for the examination of large objects

335 Five small microscopes

336 A small microscope on stand, and 3 others

6 337 A Leiter's stomach microscope

338 A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris

339 A Geneva Co.'s calliper microscope with graduated scale

5. 340 An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions

341 An expensively made microscope for the investigation of objects under the air pump, with table clamp

4. 342 An expensively made microscope for the investigation of Newton's rings, with micrometer movements

343 A dissecting microscope and a microscope lamp, by R. & J. Beck

344 A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver

6. 345 Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements

5. 346 Aquarium microscope with outer glass tube, and rack coarse adjustment

347 An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

346 Stevens Aquarium but it was placed [illegible] the Microscope in the [illegible] Could be [illegible] [illegible] objects in the tube [illegible]

334 Specially made for viewing large opaque objects.

340 Noteworthy for the variety of its rack adjustments etc.

341 Unusual form of microscope made by Boecher.

345 Made specially for examination of the eye, the mirror was for fixing the direction of the eye and when the mirror was moved the eye also moved and then all parts could be examined.

346 Stevenson's aquarium microscope; it was placed across a tank and the microscope in the glass tube could then be focussed on the objects in the water.

354 Interesting form of inverted microscope after Dr.Lawrence Smith.

362 Dr.M.Blix's microscope for measuring the curved radia of the surface of the eye; an elaborately made instrument, extremel rare, if not unique.

348 A horizontal microscope by Chevalier, and brass stand

349 An expensively made lens holder on stand, with rack adjustment, and a microscope by Murray & Heath

350 An inverted chemical microscope by Nachet

351 A vibration microscope, fitted with rack adjustment, eyepiece, objective and tuning fork

5. 352 An expensively made reading microscope, fitted with micrometer, divided on silver, and prismatic eyepieces

353 A binocular microscope by Smith & Beck (A.F.)

354 An inverted chemical microscope by Nachet

355 An expensively made micrometer reading microscope by the Cambridge Scientific Instrument Co.

356 Aquarium micro cope on stand, fitted with eyepiece and objective

357 A comparison microscope with graduated movements to the stage

358 A Wasserlein saccharometer microscope, fitted with bi-quartz

359 A reading microscope with micrometer, screw motions, in horizontal directions, by Plossl, and a carrier for a reading microscope

360 An aquarium tank on stand by Klonne & Muller, and a bull's-eye condenser, no stand

361 An aquarium microscope, a lens holder on stand, and an aquarium on stand

10. 362 An expensively made binocular examination microscope with graduated rack adjustment to eyepieces, and graduated coarse adjustment, reading by vernier, by C. G. Collin, Stockholm

363 An inverted chemical microscope by Nachet, adjusting swing-out sub-stage with condensing lens, micrometer movements to the stage

364 A large bull's-eye stand condenser, 4-in. lens

365 A microscope lamp, fitted with bull's-eye condenser and sterilizer

366 A bull's-eye stand condenser, 3-in. lens

367 Two ditto

368 An inverted microscope by Nachet

369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens

370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye

371 A projection microscope on ornamental stand

25/- 372 An horizontal microscope by Nachet, fitted with eyepiece and powers

373 A large 4-in. lamp and condenser in brass mount, with slide holder

374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs

375 An expensively made heliostat

376 A microscope table with revolving casters

377 An expensively mounted tuning fork, to show vibrations in microscope

378 A fitted microscope case with microscope tubes, and other sundries

379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries

380 Seventeen small seed microscopes

381 Fourteen seed and other small microscopes

382 Fifteen seed and botanical microscopes

383 Nine Coddington and other hand magnifiers

25/- 384 Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles

385 Fifteen small hand microscopes

386 Twenty ditto magnifiers, etc.

387 Twenty-two various small magnifiers, in 2 cases

388 A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case

372 A very early form of microphoto microscope.

389 Two trichinoscope, a small compass microscope, a binocular hand magnifier, and a small microscope in case
390 A focusing glass by Ross, and another
391 Three dozen slides—various
392 Ditto
393 Ditto
394 Sixteen fine test diatoms, and 17 others
395 Three dozen sections of shells, pearls, etc.
396 Three dozen insects, etc., by Enoch, Topping, and other good mounters
397 Thirty fine insect and insect parts, including the scarce fairy fly, by Enoch and other good mounters
398 Thirty-eight insect parts, and various
399 Forty-one large insect parts and botanical
400 Twenty-eight various and 6 large injected slides
401 Two dozen large injected slides
402 Nineteen fine coal sections
403 Four rock sections, including 2 of the scarce Eozoon Canadense and 36 others, including scarce platino cyanides, and other polarising salts
404 Thirty-one slides, various, by Enoch and others
405 Twenty-four test diatoms
406 Eight choice exhibition slides
407 Two dozen exhibition objects, in case
408 Eight choice slides showing the anatomy of the insect on one slide
409 A scarce diamond writing at the rate of 12 bibles to the inch, and another
410 A ditto
411 A scarce diamond writing at the rate of 13 bibles to the inch
412 A scarce diamond writing at the rate of 14 bibles to the inch, and another 16 bibles to the inch
413 A scarce diamond writing at the rate of 15 bibles to the inch, and another 10 bibles to the inch
414 A scarce diamond writing at the rate of 47 bibles to the inch

415 Noberts' ruling 11 bands, *now very scarce*
416 Ditto, 17 ditto
417 Ditto, 19 ditto
418 Ditto, 20 ditto

Another Property.

419 *Binocular microscope by Watson, "Edinburgh Students' Model," with 2 B and 1 C eyepieces, 1-in. and $\frac{1}{6}$-in. objectives, by Watson, and a $\frac{1}{12}$-in. ditto by Powell & Lealand;* coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, *Abbê* condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (*perfect condition*)
420 Microscopic lamp with bull's-eye, in case
421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
422 Forty-three well mounted micro slides, contents of 2 drawers
423 Forty-eight ditto
424 A ditto lot
425 Sixty ditto, contents of 3 drawers
426 A Morton's opthalmoscope in case
427 Old medical book with coloured illustrations
428 An air pump with glass shade
429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
430 Pair Carl Zeiss prismatic binoculars, 8x, in case
431 An electric copper kettle, $1\frac{1}{2}$ pints, 200-210 volts, complete with flexible and adapter; perfect order
432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
433 A 4-volt 40 amp. "Ever Ready" ditto
434 An 8-volt 30 amp. accumulator, charged

435	Three 2-volt 100 amp. "Lucas," charged
436	Half-dozen 4-volt 4 amp. "King Eton," new
437	Half-dozen 4-volt 4 amp. ditto, ditto
438	Half-dozen 4-volt 4 amp. ditto, ditto

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and Curios from Omdurman, the Property of an Officer.

Chinese and Japanese Porcelain ; Ivories ; Bronzes ; Native Curios, etc.

THURSDAY, NOVEMBER 18th, and FRIDAY, NOVEMBER 19th :—

Scientific and Photographic Apparatus ; Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also Cabinets, being the Collections of Captain Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and Roman Antiquities.

186 - 2 - 6

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND PHOTOGRAPHIC APPARATUS AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes Microscopes, Telescopes, Cameras, Lenses, Lanterns, Cinematographs, Theodolites and Levels, and every class of Scientific Instrument; Lathes and Tools, Furniture, Silver Plate, Jewellery, Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES, ARMS AND ARMOUR, IVORIES, ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS,** twice in every month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to Entomology, Ornithology, Conchology, Minerals, Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London." Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

bound

II

Phone : Gerrard 1824. Sale Nos. 13,232—13,233

Sale to commence at **12.30** *o'clock each day.*

THURSDAY and FRIDAY, DECEMBER 9th and 10th, 1920.

A CATALOGUE OF

Miscellaneous Property,

INCLUDING

Two 5-inch Ornamental Lathes by Holtzapffel;
a variety of Chucks and accessories; Circular Saw;
Grinding Machine; quantity of Tools and Drills;

A LARGE IVORY TUSK;
Several small Tusks;

AND

QUANTITY OF HARDWOOD FOR TURNING.

The third portion of the

Collection of Microscopes and Accessories

formed by the late SIR FRANK CRISP, Bart.,
including many fine Microscopes, Spectroscopes, Polariscopes, etc.

Photographic Apparatus and Cameras,

with LENSES by Goerz, Cooke, Zeiss, Ross, etc;
Telescopes, Lanterns and Slides, Prismatic Binoculars, Typewriters,
Gramophones, Records, Motor Cycle, etc.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On THURSDAY and FRIDAY, December 9th and 10th, 1920,

At **12.30** *o'clock each day.*

On view the day prior, from 12.30 till 5.30 o'clock, and Mornings of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address: AUKS, RAND, LONDON. **Established 1760.**

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

*** *Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques

A CHARGE FOR WAREHOUSING WILL BE MADE ON LOTS NOT CLEARED PROMPTLY.

Telephone :—
GERRARD, 1824

Telegrams :—
AUKS, RAND.

A CATALOGUE

FIRST DAY'S SALE

Thursday, December 9th, 1920.

AT **12.30** O'CLOCK.

ON VIEW:

Wednesday, 12.30 p.m. to 5.30 p.m.
Thursday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
1	A new canvas side cover
2	A case of insulators, and a hamper of baskets
3	An engine cylinder
4	A sheep-shearing machine in parts, a copper container, and a gas heater
5	Spong's knife machine, for 2 knives and carver, new condition
6	Piano stool, leather covered, square thread, new
7	An overcoat, by Aquascutum, Regent St., and a pair of brown leather leggings
8	Good electric mole coney coat, American dye
9	Good electric French coney coat, long hair mole coney collar and cuffs
10	Ditto with dark collar and flounce

11 Two dozen ¾-in. black handle hollow-ground Sheffield make razors
12 Lady's rosewood dressing case
13 An 18-inch decorated Imari plate
14 A Sheffield-plated 3-bottle liqueur stand, and a 2-bottle ditto
15 Silver Waltham demi-hunter, silver wristlet, and 2 gun-metal watches
16 A gentleman's gold hunter, in good working order
17 Twelve small Baxter prints, and one Le Blond print
18 Gold bracelet watch
19 Gentleman's gold signet ring
20 Gold chain ring
21 Well-made coil and spring winder
22 Lady's silver wrist watch, and another
23 Electro-plated table lamp
24 Brass table lamp
25 Steljes' recorder, new condition
26 Lady's escritoire, having finely painted Sèvres panels, and massive ormolu mounts
27 An open bookcase
28 Circular mahogany table on tripod feet

BOOKS, &c.

29 The Works of Samuel Johnson, LL.D., leather bound, 11 vols.
30 Byron's Life and Letters, 6 vols. ; Byron's Poetical Works, 10 vols.
31 Wordsworth Poetical Works, 6 vols. ; Atlas of Principal Cities of the World, Astronomical and Geographical Diagrams, and Morant's Geological Chart
32 Hallam's Middle Ages, History of England, etc., 13 ; History of the War, etc., 9
33 Twenty-four vols. various
34 Twenty-four vols. various
35 Twenty-four vols. various
36 Poems, etc., 12
37 Memoirs of Egypt Exploration ; Paris Picturesque ; History of York Cathedral ; Swiss Pictures, and 13 others (17)

38 Framed picture—Balaclava, and 2 others
39 Framed engraving—Meeting of Wellington and Blucher
40 Old engraving, framed—Blind Fiddler; painting in oils, crayon drawing, and another
41 Charming water-colour drawing, gilt frame—York Minster
42 Old painting in oils—Goats

GRAMOPHONES, RECORDS, &c.

43 A cabinet Zonophone with sound box, tone arm, and large horn, good motor
44 A dozen gramophone records including 2 Tetrazzini, 1 Melba and some French operas
45 Thirty assorted gramophone records
46 Twenty-eight ditto
47 Two dressing bags (one containing a number of silver-mounted fittings)
48 A gentleman's dressing case with fittings, and 4 small writing pads
49 One dozen Marathon records
50 Sixteen Zonophone records
51 Sixteen various
52 Table gramophone, double spring
53 New oak cabinet gramophone, complete
54 Hornless oak cabinet gramophone, 6-in. tone-arm, complete, new
55 Hornless oak cabinet gramophone, 5-in. tone-arm, complete, new
56 Two doz. gramophone records
57 Ditto
58 A walnut penny-slot musical Polyphone, 3ft., and tunes, in perfect order (originally cost £20)
59 Ditto
60 Ditto
61 Ditto
62 Twelve rolls 65-note player-piano music
63 Ditto, ditto

64 A very fine mahogany pedestal gramophone, with record cupboard, Chippendale style, fitted with heavy double-spring worm-driven motor, and fine sound box

65 Massive Heppelwhite style pedestal gramophone, with record cupboard, fitted with heavy double spring worm-driven motor and sound box

66 Mahogany pedestal gramophone, with record drawer and cupboard, fitted with double spring worm-driven motor and fine sound box

67 Mahogany dwarf pedestal gramophone with American double spring worm-driven motor and fine sound box

68 Solid mahogany pedestal gramophone with venetia front, fitted with double spring worm-driven motor

69 Twelve 12-in. gramophone records in album, H.M.V., Columbia, Celebrity, etc., condition as new

70 One dozen 12-in. gramophone records

71 One dozen 10-in. ditto

72 One dozen 10-in. ditto

73 One dozen 10-in. ditto

74 One dozen 10-in. ditto

WINES AND CIGARS.

75 Twenty-five cigars, La Flor de Villa Rica

76 Twenty-five ditto

77 Twenty-five ditto

78 Seventeen cigars, H. Upmann, Habana; 3 ditto, John Alvarez ditto, and casket; and 43 Partagas, Habana

79 Thirty-two cigars, Punch De Valley, Habana; 9 ditto, Villar Villar, Habana; 18 ditto, Henry Clay, Habana

80 Eighty cigars, Villar Villar, Habana

81 Fifty ditto, La Carona, Habana

82 Fifty cigars, Romeo y Julietta (size Romeo, No. 1), boxes of 25

83 Ditto

84 Ditto

85 Fifty cigars, Romeo y Julietta (size Romeo, No. 1), boxes of 25
86 Ditto
87 Ditto
88 Ditto
89 Ditto
90 One dozen bottles of St. Estephe, 1916 vintage
91 Ditto
92 Ditto
93 One dozen Red Lisbon wine, port style
94 Ditto
95 Ditto
96 Ditto
97 Ditto
98 One dozen Red Mistella wine
99 Ditto
100 Ditto
101 Ditto
102 Ditto
103 Sparkling Muscatel, Golden Coronet, a case of 12 bottles
104 Ditto
105 Ditto, a case of 24 half-bottles
106 Sparkling Muscatel (ruby), Golden Coronet, a case of 12 bottles
107 Ditto
108 Ditto, a case of 24 half-bottles

LATHES, TOOLS, &c.

To be sold about 2 p.m.

109 A large self-centering chuck, by Holtzapffel
110 A large 6-in. chuck, independent jaws
111 A small self-centering chuck, 1 screw chuck, 1 polishing disc, and various accessories, 14 pieces in all, and a small chest of lathe tools
112 A 12-in. independent chuck
113 Twelve lathe tools, $\frac{3}{8}$-in. square
114 Watch jewelling tool, in case
115 Watchmaker's mandrel

116 *Drummond's* 3½-in. saw table, new, with spindle, and two saws

117 Scroll chuck, 2-in., and 6-in. circular saw on arbor

118 Working model of hydraulic press

119 Set of *Whitworth* stocks and dies, ⅜in., ½in. and ⅝in., new condition

120 Ornamental slide rest, by *Evans*

121 Divided chuck, by *Evans*

122 An 8½-in. *Horton* S.C. chuck, key, one set jaws

123 A 5-in. *Almond* S.C. chuck, key, one set jaws

124 *Gronkvist* chuck for morse taper shank

125 Manchester straight line tapping chuck with Morse taper shank

126 Ditto

127 *Motor cycle*, 3½-h.p., 3 speed gear, thoroughly overhauled and replated and enamelled and new parts, and new heavy Dunlop tyres and tubes

131 *Brown & Sharpe* 2-in. micrometer, and *Starrett* 2-in. to 7½-in. internal micrometer

132 An aluminium slide rule, in case

133 *Brown & Sharpe* cast steel standard rule, in mahogany case (24-in. long), markings, 1/64ths one edge, ·01-in. other edge, and also a dot device for marking down to ·001-in.

134 A 6-in. rule marking micrometer, by *W. Madsen*, marks off from both ends leading screw 1/40-in., controlled by double-handled disc showing ·001 in a space of ¼in., the machine therefore can approximate to ·0001, two screw vices and faces are adjustable to micrometers and has four distance pieces and back stop

135 *Starrett* micrometer, 1-in. Whitworth Standard, 8 to 13P. graduated, ·000in. to 1-in. for screws, and 2 adjusting wrenches, all in wood box

136 *J. T. Slocomb*, 1-in. to 2-in. micrometer, 1·000 to 2·000 with adjusting wrench, in cardboard box

137 *J. T. Slocomb*, ·000-in. to 1-in. micrometer with adjusting wrench, in cardboard box, and an Imperial standard wire gauge, double disc type

138 A 4-draw pocket telescope, an ivory scale rule, and a Sikes's hydrometer

139 A sliding vernier micrometer by *Troughton & Simms*, to read up to 14ins. inside and 13ins. outside, by 1/400th inch, in hardwood case

140 Double spirit level, and steel straight edge, new

141 A large *Stanley* plane

142 Small vice, watchmaker's mandrel, and other tools

143 Mahogany case with taps and dies

144 Two 0–½-in. *Goodell* pattern drill chucks, new

145 Two ditto

146 One *Goodell* pattern drill chuck, and gross 8-in. hack-saw blades

147 Two gross 8-in. hack-saw blades

148 Two gross 10-in. *Star* hack-saw blades

149 A large model engine, *Black Prince*, with brass boiler, complete with tender (A.F.)

151 *A 5-in. centre lathe by Holtzapffel*, with iron heads, brass pulley with speed grooves, best division plate, adjusting index, tangent screw movement, segment plate with stops, cylinder poppet head, 2 centres and flange, rest and 3 tees, mounted on a double-framed mahogany stand, iron bearings, double bevel wheel, crank and treadle, nest of 6 drawers fixed under lathe for chucks, etc.; also boring collar, plate and head, overhead motion, 30 brass chucks, 8 drills, oval chuck and ring, compensating index and key, 3 pairs of double screw chucks, die chuck and lathe key, and a large number of boxwood chucks

152 A 5-in. ornamental slide rest, cradle, fluting stops, collar, winch handle, straight key and lever fitted with automatic drive for same, fitted for spiral apparatus and curvilinear apparatus

The following six chucks have been used with the above lathe, No. 2130 :—

153 *Bennett's* die chuck
154 A gunmetal universal chuck
155 A spherical chuck
156 A rectilinear chuck
157 An eccentric chuck
158 A spiral chuck, radial arm and bolt, 16 change wheels, 3 arbors, surface spiral and bolt, 2 mitre and 2 round edge wheels, arbor for slide rest, blanks and washers and key
159 A 5-in. *Cushman* chuck and key
160 A 3-in. ditto (no key)
161 Ditto, with key
162 A 2-in. ditto and key, with 2 sets of jaws
163 A guide for slender turning
164 A ditto
165 A set of 3 lathe taps, handled in mahogany
166 Curvilinear apparatus consisting of 2 posts and screws, steel bar, 13 curves, and rubber
167 *A 5-in. centre lathe by Holtzapffel,* No. 880, traversing mandrel, tangent screw movement, segment plate and stops, 6 screw guides, and conducting apparatus for same, best division plate, adjusting index, cylinder poppet head, 2 centres and flange, 2 hand-rests and 2 tees, lathe key, oval chuck and ring, 34 brass chucks, 10 brass rings for spring chucks, 12 carpenter's bits fitted to brass chucks, and a large number of boxwood chucks

The following have been used with above lathe :—

168 A spherical chuck
169 An eccentric chuck
170 A ditto

171 A spiral chuck, radial arm and bolt, 17 change wheels, 3 arbors, arbor for slide rest, blanks and washers and key
172 A 5-in. ornamental slide rest, cradle, fluting stops, collar, winch handle, straight key and lever
173 *Atkinson's* reciprocator
174 A ditto
175 Four cutter bars
176 A cutter bar and 3 blades
177 Cutter bar for external threads, and 7 blades
178 A ditto for internal threads, and 15 blades
179 A triangular cutter bar, and 25 blades
180 A chisel cutter bar and 1 blade, and a gauge cutter bar and 2 blades
181 A vertical frame by *Hines*
182 An internal cutting frame
183 A ditto
184 A universal cutting frame
185 A large ditto with 3 pulleys and key
186 A universal cutting frame
187 An eccentric cutting frame and key
188 A ditto
189 A vertical cutting frame, 4 pulleys and key
190 A ditto and key
191 An internal cutting frame with guide pulleys
192 Brass centering plate, a brass grinder, key for counter-sunk heads, 3 keys, 8 cylinder bits and 3 drills, 2 large slide rest tools, a set square, a set bevel, 1 tap, 1 cylinder bit, and 3 handles, 2 screw plates and taps
193 A small parallel vice
194 A goniostat in mahogany case, 3 cans of powder, oil can, 3 laps, and 3 holders for small cutters
195 Another in mahogany case, 3 laps, and 1 holder for small cutters
196 An instrument for sharpening bead tools, in mahogany case, 12 cones, and 14 drills
197 A ditto in mahogany case, 7 cones, and 12 drills

198 A lot of miscellaneous cutters and tools

199 A mahogany engine tool case, containing 86 small slide rest tools, 98 eccentric cutters, 36 universal cutters, a drilling instrument and 111 drills, a holder for sharpening, and a socket handle

200 A mahogany case containing 151 slide rest tools, and socket handle

201 A mahogany case containing drilling instrument and 102 drills, and a holder for sharpening

202 A mahogany tray containing 90 slide rest tools and horizontal cutters

203 A mahogany tray with drilling instrument and 140 drills

204 A mahogany tray containing 133 eccentric cutters

205 *Holtzapffel's circular saw on mahogany stand*, 6 saws, quadrant, and key

206 *A grinding machine on mahogany frame stand*, trough and rest, 2 stones, lead cap, and buff wheel

207 *A large well-seasoned ivory tusk, about 4ft. long, maximum diameter 4in.*

208 A part ivory tusk, 12in. long, and 4½in. diam.

209 Six small tusks and parts

210 Ditto

211 Eight part ivory tusks

212 Six small pieces of ivory, and bag of fragments

213 A large quantity of hard woods

Experiments made with aeroplane propellers have proved that they are suitable for turning, and very satisfactory results have been obtained by the vendors of the following lots :—

214 Three aeroplane propellers

215 Ditto

216 Ditto

217 Ditto

218 Ditto

219 One dozen new taps, *special Whitworth*
220 One dozen ditto, ·445, 20 threads
221 Six ditto
222 Ten high-speed drills, new, 10 millimetres, left-handed
223 Two sets 5/16-in. *Whitworth* taps, 3 new
224 Two ditto
225 Three ditto
226 Three new slotting cutters, 2½in. by ⅛in.
227 Ditto
228 Ditto
229 Six ditto
230 Six new slotting cutters, 3in. by 5/32-in.
231 Six ditto
232 A 4¼-in. centre *Relmac* bench lathe, by *Hatch*, fast and loose pulleys, tail-stock, slide rest and lead screw, but no change wheels
233 A massive 3-ft. oak bench with very heavy fly-wheel and treadle motion, and stepped driving pulley
234 A grinding, polishing and turning lathe, 2-ft. bed on iron standards, with heavy fly-wheels, treadle, tool rest, and emery wheels
235 A Reliance post drill
236 An engineer's 12-in. protected level, by *Starrett*
237 Extension trammel and set ball points by ditto
238 A *Lloyd's* register decimal gauge, for measuring hundredths, etc., with ordinary callipers
239 A pair of Vee blocks and clamp for drilling, etc., round rods
240 Two powerful 6-in. G cramps
241 A massive bolt cropper (needs nut)
242 A small blow lamp
243 A small spirit soldering iron
244 A *Goodell-Pratt* ½-in. drill chuck
245 A new glazier's diamond
246 A reciprocating hand-drill
247 A vice for drilling machine use
248 A tool pad and sundry callipers

249 A new 22-in. beech trying plane, and a ditto jack plane
250 A Union 9-in. iron smoothing plane, a pin vice, a hand vice, and a tap wrench
251 A *Clarke's* expansion bit for wood, expansion drill for iron, a new $\frac{5}{8}$-in. twist drill, ditto reamer, etc.
252 A 7-in. circular saw, with lathe spindle (arbor)
253 A microscopic metal camera with lens, in case, twelve metal slides, and focusing screen
254 Two Huyghenian eyepieces, x4 and x6
255 A 5-in. Whitton 3-jaw scroll chuck, in good condition
256 A $4\frac{1}{2}$-in. Parkinson quick-release vice, perfect
257 Microphotographic apparatus, consisting of microscope portion fitted with an objective and small condenser, and the camera portion with dark slide fitted thereto
258 One dozen centre drills, size B, new
259 One dozen ditto
260 One dozen ditto
261 One dozen ditto
262 One dozen ditto
263 Two dozen ditto
264 Two dozen ditto
265 One dozen twist drills, new, 9/64
266 One dozen ditto
267 Two dozen ditto
268 Two dozen ditto
269 One dozen twist drills, new, size 35
270 One dozen ditto
271 One dozen ditto
272 One dozen twist drills, new, size C
273 One dozen ditto
274 One dozen ditto
275 One dozen ditto
276 Two dozen ditto
277 Twenty-five metal saws, $2\frac{3}{4}$in. diam. by 1-in. hole

278 Ten "India" and "Aloxite" stones, in teak tray
279 Thirty reamers, standard, straight and taper, in stand, new
280 A set of 1-in. *Whitworth* standard taps, in stand
281 Thirty twist drills and cutters, in stand
282 Four new milling cutters, 2 to $\frac{1}{4}$-in., and 2 to $\frac{3}{8}$-in. diam., and 16 small
283 Armstrong knurling tool, 3 grades
284 Two forming tool holders, inside and outside, with tools
285 Brand new Starrett 4 to 5-in. micrometer
286 Nine riveter's tools
287 C.O. generator, new
288 Ditto
289 Stanley plane, No. 78
290 Saw setting vice
291 Carpenter's bench clamp
292 Box joiner's tools, plane, set of scrapers, bits, etc.
293 Box engineer's tools, hand drills, 6 spanners, foot-prints, stones, chisels, etc.
294 Sixty twist drills, assorted
295 Box of lathe tools
296 Box of electrical sundries

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297 Stock's patent bioscope lantern
298 Busch A.G. Rathnow lens
299 Ditto
300 "Prince of Wales" acetylene generator and lamp
301 Manheim slide rule in case
302 Large 4-pole magnet
303 A 20-gall. tinned steel petrol tank, fitted with unions
304 No. 7 Elman's duplicator, nearly new, complete, mahogany case
305 Twenty 10-in. assorted records
306 No. 1 Hartford drill chuck, 0 to $\frac{1}{2}$in., new
307 A 3-piece electro-plated tea service
308 Pipe wrench, and 4 builder's trowels
309 Pair lever cutting pliers, and half-dozen razor strops

310	Pair candlesticks, and 6 egg cups
311	A 26-in. hand saw, and 24 builder's levels
312	Pair carriage lamps
313	Two 28-lb. and one 400-lb. balance
314	Brace and 6 bits
315	Motor pump, and N.P. hack saw
316	Bough pruner, and hack saw
321	Two large model motors
322	Large medical coil, in case
323	One hundred pocket lamp 3½-volt bulbs, guaranteed perfect
324	Thirty-six nickel-plated torch cases
325	Three dead beat volt and amp. meters
326	Large mechanical train, perfect
327	Complete clown's costume, never worn
328	Complete nigger's costume, quite new
329	Complete pierette costume, new
329A	Twelve sets of coloured lantern slides (12 to a set, with readings)
330	An 8½-in. enlarging condenser, new
331	Four section telescopic metal tripod, new, fitted with double springs to each joint
332	Lilliput roll film camera
333	A ¼-plate folding camera with double lens, various speeds working at F/8 with focus screen, 2 metal dark slides, and antinous release, new, in perfect order
334	Twelve ¼-plate metal slides to fit Cameo camera
335	Twelve ditto to fit Klito camera
336	Post-card size film pack adapter, to fit Klito camera
337	Twelve pocket lamp accumulators
338	Full-size optical lantern, complete
339	Incandescent outfit, tray, fittings, and inverted burner
340	Splendid mahogany bodied optical lantern with 4-in. Meniscus condenser, brass front, 2 doors, rackwork lens and incandescent outfit, complete, new, perfect
341	Twenty-four superior Sheffield safety razors, fitted with Gillette pattern blades
342	Superior hornless gramophone, new, with six double-sided records

343	One hundred guaranteed perfect 2½-volt metal filament bulbs for pocket lamps and torches
344	Best large lens American torch (real fibre), with new battery, complete
345	Six new pocket lamp accumulators
346	Two motors
347	Three dozen horse-shoe magnets
348	Six dozen. 2-ft. high rods, with aluminium fittings, suitable for lantern tripods, banisters, fencing, shelf supports, etc.
349	Two electric cycle lamps (front and rear)
350	Six post-card size metal dark slides, to fit Klito camera
351	Three perfectly new dead beat combined volt and amp. meters
352	Three Ediswan electric bells, new
353	Two high-grade Sterling Telephone Co.'s bells
354	Three best quality bells of the Efandem Company
355	Very special quality 2½-in. focus cinema lens, new
356	Ditto, 3-in. ditto
357	Ditto 3½-in. ditto
358	Ditto 4-in. ditto
359	Electric railway, new, perfect condition
360	Complete cinematograph for home use
361	Two 5½-in. enlarging lenses

END OF FIRST DAY'S SALE.

SECOND DAY'S SALE.

Friday, December 10th, 1920.

AT **12.30** O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
401	A pair of antlers, curtain pole, and various iron rods for curtains
402	A small washing machine for blankets
403	Fifteen gramophone records
404	Sixteen gramophone records
405	Two expensive vacuum cleaners
406	A small wringer
407	A plated hot-water jug, a ditto flask, and a plated kettle stand
408	One hundred and forty antique copper coins and tokens
409	Box of gold and silver articles, coins, and jewellery
410	A silver motor clock
411	A very heavy silver cigar case, beautifully engraved
412	Heavy silver flask
413	A 14-day ormolu clock, in order
414	A gold expanding wrist watch

415 Mahogany H.M.V. hornless gramophone, cost 14 guineas
416 Gramophone, Columbia, double motor
417 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm, and sound box
418 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
419 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
420 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
421 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
422 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
423 A Remington typewriter, No. 7, 9-in. roller
424 A ditto
425 A Remington typewriter
426 A 4-ft. oak pedestal roll-top desk (no centre drawer), slightly damaged
427 An Elliott-Fisher book-keeping machine
428 An Elliott-Fisher book-writer
429 *Six Ediphone dictating machines, etc., and a machine for shaving cyclinders*
430 Goerz prismatic monocular prismatic field glass, in leather case
431 A gentleman's silver English lever, lady's silver watch, and a metal watch
432 Binocular microscope, rack and fine adjustments, inclining, with eyepieces and objective, condenser, etc., in mahogany case
433 A No. 11 Remington typewriter in first class order and condition, fitted 2 colours, backspacer and tabulator
434 Expensive pair electric curling irons, complete with flex and wall plug

435 Foolscap carriage, for Oliver visible typewriter
436 A No. 10 Smith Premier visible typewriter, writing 2 colours, with backspacer and tabulator, first class order and condition
437 An oblong Japanese lacquer tray, inlaid silver
438 A ditto, ditto
439 A circular ditto
440 A ditto, ditto
441 A pair of Oriental porcelain ginger jars and covers
442 Handsome pair ditto vases, birds and flowers, 18in.
443 Another pair (smaller)
444 A porcelain tazza, enamelled in basket of flowers, on pink ground
445 Set of 3 Chinese porcelain plates
446 Large yellow ground jar and cover painted in birds and flowers, 15in.
447 A silvered and gilt shrine with figure of Buddha
448 A ditto with 3 idols
449 Pair eggshell Oriental vases
450 A ditto pair (globe-shaped)
451 Two coloured Oriental figures
452 Large mandarin necklace with pendant and drops
453 Two ivory necklaces, graduated beads
454 Pair Chinese vases, richly decorated in figure and birds
455 A set of 5 vases, 3 with covers
456 A carved ivory group of figures
457 A ditto, ditto
458 Fur coat with fashionable skunk opossum collar
459 A ditto

SCIENTIFIC INSTRUMENTS, &c.

460 A student's microscope by Crouch, with 2 eyepieces, and objectives, in case
461 A fine case of optician's eye testing lenses, by Pickard & Curry (incomplete)

462 A graphoscope (folding)

463 Sextant, by Schmalcalder, with horizon and 1¾lbs. mercury, in brass bound case with lock and key

464 Surveying level by Adie, in case with lock and key, and tripod for same

465 Surveyor's staff, 3-length, 14ft.

466 Prismatic field glass, 8x central focusing and case

467 Monocular microscope by Smith & Beck, mechanical stage, substage condenser, 4 eyepieces, 3 objectives, and 12 other fittings in mahogany case

468 Special polariscope set for the above microscope

469 Six dozen popular microscope slides, in case

470 Prismatic binocular, new condition, in case

471 Long range taper telescope, in case, 2 eyepieces

472 Three ¾-in. telescope object glass, in brass mount

85/- 473 Large prism binocular telescope by Carl Zeiss

474 Claude Lorraine mirror and sketching board by Steward, Strand

475 Corn scales in case, thermometer and compass

476 Single lantern by Newton & Co., 4-in. condenser, complete in case

477 Seventy coloured lantern slides on Japan, and 25 on India

478 One hundred and ten ditto—many hand coloured—Africa

479 Fifty-five ditto, coloured Egypt, and 36 others

480 Eighty ditto, coloured, in box

481 Seventy Continental views by Levi, Paris, and 48 others

482 Large quantity of lantern slides (over ¾ hundredweight)

483 Two large diameter cinematograph lenses

484 Three Pathé lantern lenses

485 Two large diameter cinematograph lenses

486 A No. 3 Powell & Lealand microscope, 1 eyepiece, mechanical stage and fine adjustment

487 A Powell & Lealand student's microscope, 1 eyepiece, and sliding bar stage

488 Orthoscopic eyepiece by Zeiss

489 Micro spectroscope by Zeiss, in case

490 Binocular eyepiece by Zeiss, in case

491 A binocular microscope by Crouch, 2-in. 1-in., and $\frac{1}{4}$-in. objectives, achromatic condenser, polarizer, parabolic reflector, 2 eyepieces, lieberkuhn, live box, camera lucida, etc., in mahogany case

492 Expensive mechanical microscope stage with double rack and pinion, horizontal motions, and screws for attaching to any plain stage

493 Massive brass dissecting microscope stand with lens holder, stage with large aperture, rack and pinion coarse adjustment, swing mirror, extension tube and swivel motion, on heavy triple foot base

494 Zeiss prismatic binoculars, 8x, in case

495 Zeiss marine binoculars, 6 × 30

496 Zeiss prismatic binoculars, 6x, in case

497 Goerz field glass

498 Zeiss prismatic binoculars, 6x

499 *Negretti & Zambra binocular microscope*, in glass-fronted mahogany case with various accessories, including 5 objectives, 5 eyepieces, micrometer ditto, camera lucida, substage condenser with iris, spot lens, large and small bull's-eye condensers, 2 live boxes, compressor, selenite stage, polariser, analyser, etc., etc.

500 *Swift micro lamp* with bull's-eye and other attachments, in case

50/- 500A *Automatic stamp affixing machine*, with numbering device and key 9 0

The third portion of the Collection of Microscopes and Apparatus formed by the late Sir Frank Crisp, Bart.

£25 501 *A binocular presentation microscope, the Watson Draper, rack coarse adjustment,* £20

Lot 501.

This is the actual microscope illustrated in Mayall's lecture on the microscope

It is an interesting & scarce form of Binocular microscope & historically speaking important as showing the very complicated arrangement of lamps in combination with mirrors for the purpose of obtaining very oblique illumination

Lot 506 Interesting as showing Zeiss method of making their ordinary histological stand Notable

graduated patent fine adjustment, graduated inclination, rack adjusting substage with centering screws fitted with a pair of "B" capped eyepieces, 2 micro lamps with metal chimneys, and fitted with bull's-eye condensers attached to base of stand; the whole in new condition, by Watson & Sons

502 An "A" objective by Zeiss

503 A "C" ditto

504 An "E" ditto

505 A "J" ditto

60/- 506 A student's microscope stand by Zeiss, with eyepiece £3 0 0

507 Microscope rack coarse adjustment, patent fine adjustment, rack adjusting substage with centering screws, rotating graduated mechanical stage fitted with "B" eyepiece by Ross

508 A 4-in. objective by Ross

509 A 1½-in. ditto

510 A ½-in. objective by Ross, with graduated correction collar and cone front

511 A ⅕-in. objective by Ross with graduated correction collar, can be used either as an immersion or dry

512 Five odd stages

513 Three goniometer stages

514 Pair of "A" capped eyepieces, 1 with indicator, and a "B," "C," "D" and "F" ditto

515 An "A" eyepiece with adjustable diaphragm, 2 "B" eyepieces, 1 with indicator, and 4 others

516 Three capped eyepieces with indicators, and 4 others

517 *Sphere of clear quartz, 2½-in. in diameter full, mounted on brass adjustable stand*

518 Four cases of various coloured glass screens for the microscope

519 Centering substage fitting, swing out understage, with iris, camera lucida, and other micro sundries

520 Mahogany bodied projection lantern, 4-in. condenser, by Watson & Sons

521 A projection microscope fitted with drawing prism and rack adjustment, by Watson & Sons; fits above lantern

40/- 522 James' exhibition microscope - - - - £1 10. 0

65/- 523 Student's microscope by Kellner, fitted with eyepiece and objective - - - - - £2 15 0

524 Portable microscope and a student's ditto, with objective and eyepiece

£5 525 Demonstration microscope by Nachet, with extra handle and stand - - - - - - - - - - £4 0 0

526 Student's microscope by Gundlach, rack coarse adjustment, rotating goniometer stage

£4 527 Portable microscope, rack coarse adjustment, in brass case - - - - - - - - - - - £4 0. 0

£7 528 Koristka's large stage microscope - - - £4 0 0

£7 529 Erecting binocular rack coarse adjustment, fitted with a pair of capped eyepieces - - - - - - - - - - - - - - - - - £6 6. 0

£5 530 Worked sphere with universal movements in brass mount, by C. D. Ahrens - - - - £4 5 0.

65/- 531 Two small youths' microscopes, 1 by Schirck - - - - - - - - - - - - - - - - £3 0. 0

532 A $\frac{1}{8}$-in. micro objective with correction collar, by Powell & Lealand

£5 533 Soiree microscope, with a pair of capped eyepieces, stage condenser and lamp, by R. & J. Beck - - - - - - - - - - - - £3 0 0

£15 534 Giant microscope with adjustable stage, fitted capped eyepiece - - - - - - - - - £10 0. 0

535 Revolving polariscope, fitted with a square end prism, $\frac{3}{4}$-in. by $\frac{3}{4}$-in. by $1\frac{3}{8}$-in.

45/- 536 An Amica prism on adjustable stand, and another prism on stand - - - - - - - - - £3 0. 0

35/- 537 A prism with circular faces, 2-in. diameter, on adjustable brass stand

538 A light modifier on stand with ball and socket movements, and an adjustable screen holder and a lens holder with ball and socket movements

539 Polariscope, and 4 nicol prism analysers

Lot 522 This form of Microscope was used by a travelling Showman, he had (4) received to the table for exhibition

" 523 In this Microscope the whole body of the Microscope can be rotated on the base, thus giving illumination in all azimuths

525. An interesting form can be used either in the hand or on a stand

524 Uncommon form of portable notable for the heavy brass case somewhat unnecessary in a portable instrument

528. Dr Giacomini's brass Microscope with extra large stage for entire sections

529 Scarce form (probably unique) made by the celebrated optician maker Schreas who was its inventor

530. made by alone & good specimen of this book

531 Has la Cassini Case fine adjustment

533 Scarce form made fool proof for public exhibitions

534 Unique form of Giant Microscope Crisp had it from Austria (no maker known)

536 Two interesting forms one after the celebrated Amici & the other Powell & Leland's super stage prism

543 Microscope of unusual form by a maker whose microscopes are rather rare

545 —

546 A rare type (probably unique) of a Binocular microscope with single divided object lens for viewing large objects

548 A rare form not often found with both bodies introduced by Beck in 1862 but soon withdrawn as the public did not buy it - hence its rarity

554 Early form of mechanical stage

554 A very scarce & early form of Binocular dissecting microscope by Nachet

558 A very rare & early form of microscope specially adapted for viewing small living organisms under great pressures up to about 650 atmospheres

540 Bull's-eye stand condenser with ball and socket movements, lens 2½-in. in diameter

541 Gas micro lamp, and another

65/- 542 An expensively mounted drawing prism by Nachet, on rack adjusting stand

£5. 543 A microscope of unusual design, rack coarse adjustment, fitted with eyepiece, objective and stage bull's-eye, by Morrau, Paris ..... £3 0. 0.

544 Student's microscope, rack coarse adjustment, fitted with eyepiece, by Anderson

90/- 545 Two dissecting microscopes ..... £2. 10. 0.

£10 546 An expensively made reading microscope on stand, by Weston, Rostock ..... £4 10. 0.

547 Projection microscope

£10 548 Universal microscope with tricolour and binocular bodies, by Beck ..... £5. 0. 0.

549 Ten various stages

550 Abbé's hemisphere puzzle plate in brass frame, and a defraction plate in brass mount by Zeiss ; 3 astroscopes, a defraction apparatus by Tisley, and a defraction plate by Zeiss (faulty)

551 A set of 3 swing-out Darker selenites, and a reflecting polariscope

552 Rack centering substage, fitted with achromatic condenser

553 Kellner achromatic eyepiece, another with indicator, high power ditto by Beck, and 3 others

554 Portable binocular microscope with rack adjustment for width of eyes, and rack adjusting substage ; pair of "B" eyepieces, polariscope and analyser substage condenser, spot lens, paraboloid silver side reflector, 5-in., 4-in., 2-in., 1-in. and ¼-in. objectives, with other fittings, in leather case

40/- 555 Large projection lens in brass mount

£4 556 Student's microscope with mechanical stage, by Pritchard ..... £2. 5. 0.

£5 557 Small binocular microscope by Nachet .. £3. 10. 0.

£8 558 Microscope for showing the effects of high pressure, by Ducretet, Paris £7. 7. 0

£4 559 Petrological microscope with nicol prism polariscope and goniometer eyepiece, fitted with analysing prism

560 Two youths' microscopes

£20. 561 *Binocular microscope, the Watson Crossley rack coarse adjustment, adjustment for width of eyes, patent fine adjustment* graduated, rack substage with centering screws, and a revolving mechanical goniometer substage, fitted with a pair of capped eyepieces - - - - - - - - - - - - - - £16. 0. 0

£8 562 A best quality microscope with rack coarse adjustment, divided fine adjustment, rack rotating goniometer mechanical stage, rotating substage with centering screws, by Ross

563 Objective by Nobert, and 3 others

564 Four microscope objectives

565 Five odd size objectives

566 Twenty small magnifying non-achromatic single powers

£5 567 Demonstration microscope by R. & J. Beck £4. 0. 0.

£4 568 Trichina microscope compressor, microscope with extra large glass stage - - - - - £2. 0. 0

569 Three special magnifiers, 3, 6 and 10, by Reichert

570 Watson's modification of Mackenzie's removable swinging substage, and a mounted mirror

571 Bramhall's illuminator, and 3 paraboloids

572 Gundlach's illuminator and 5 other substage illuminators

573 Ten various substage illuminators

574 Superstage with mirror, mounted illuminator, and 3 others

575 Four vertical illuminators

576 A binocular illuminator, superstage, and 2 silver side reflectors

577 Binocular eyepiece (Tolles), by Ladd; tubes separated by pins travelling in spiral slots

578 Hot stage in case

~~50/- 579 Spherometer by Dollond - - - - - - - - - - 10 0~~

561 An especially made Microscope after the design of Crossley F.R.A.S. special attention is directed to the last piece filled with prisms for oblique light.

564 A Case form with lamp holder follows the American form of Queen & Co

568 An interesting form of Fischer's Microscope the two large glass plates act as a Compressor & holder at the same time

588 A fine specimen of this celebrated American maker's work with the added feature that it was working microscope of Stodder, (Zolles successor) Geiß had it direct from Stodder's heirs.

589 Dr. Lacey Otthers form of lamp holder made by Jacket

590 A rare & very interesting form of microscope lamp. The special feature of it is that by repeated total reflections within the glass rod the light is conducted from the lamp to under part of the glass slide

594 Dr. Ullsperger form of saccharometer for the quick determination of sugar in urine &c

595 Dr. Sherrys bed side stereoscope

598 Fine specimen of this celebrated American makers work

599 Fine & very rare probably unique made by the celebrated French maker C. D. Chevalier (now dead)

£5	580	~~Microscope with rack coarse adjustment, by Gaubert, Paris~~	~~£2 0 0~~ C
	581	Portable microscope by Murray & Heath, fitted with eyepiece and objective, and another	
	582	Demonstration microscope with eyepiece objective and condenser	
	583	Portable dissecting microscope with powers and apparatus, and another	
85/-	584	Three dissecting microscopes	
85/-	585	Three small dissecting microscopes	£2 10 0
	586	Three ditto	
	587	A small aquarium microscope, and a dissecting microscope	
£15	588	A microscope, rack coarse adjustment, rack substage with centering screws, rotating stage by *Tolles*; the working instrument of C. STODDER, U.S.A.	£10 0 0
£9	589	Elaborately constructed microscope, fitted with 3 various powers and universal movements	£4 10 0
50/-	590	Koch and Maxwol's patent reflecting microscope lamp, and 2 lamps with bull's-eye stand condensers	£1 15 0
	591	Expensively mounted dissecting lens with ball and socket movements, on stand	
	592	Three small dissecting lenses on stands	
	593	Copper oven for cultivation of bacteria, and stand	
60/-	594	Ultzmann's saccharometer eyepiece, by Reichert	~~£2 2 0~~
65/-	595	Therry's hand spectroscope	2 2 0
	596	Bent body tube and a right angle prism	
	597	Microscope with eyepiece, by Plossel	
£12	598	A presentation microscope, rack coarse adjustment, graduated fine adjustment, rotating centering goniometer stage, rack adjusting substage with centering screws; the instrument rotates on the base and is graduated, by Bausch & Lomb	£10 0 0
£4	599	Ahrens' binocular microscope, mechanical stage, fitted with a pair of eyepieces and objective	£4 0 0

45/- 600	Oculist's microscope by Nachet, and triple objective	
601	Student's microscope, rack coarse adjustment, and another	
£8 602	Microscope by Plossel, and another by Pritchard	£5 0. 0
75/ 603	Demonstration microscope fitted with eyepiece and condensing lens, and 2 others	£2 0. 0
35/- 604	A Ramsden micrometer eyepiece, fitted to draw tube, and a dissecting lens with 3 powers on stand	
605	Four microscope stages	
606	Ten various eyepieces	
607	Six frog plates	
608	Seven odd objectives	
609	Two diamond writings, 2 micrometers—100 and 500, and sixteenth chapter of St. John micro lithographed	
610	Three electrical stages with platinum points	
611	Mechanical finger by Zentmayer, and 2 electrical stages	
612	Test plate by Zeiss, and a Maltwood finder, both in brass frames	
613	Nine various single nose-pieces	
614	Five various safety stages	
615	Bottrel's zoophyte trough, two focusing eyepieces, and five eye-shades	
616	Jung's compressorium, Kunchel's "Herculais" compressor (Verick), and two others	
617	Reflecting camera lucida, Malassez's ditto, and another	
618	Camera lucida by Beck, ditto by Nachet, and three others	
619	Zeiss camera lucida, a camera lucida by Chevalier, and three others	
620	Sorby's spectroscope for binocular microscope, by R. & J. Beck	
621	Goniometer eyepiece with one and three cross threads and graduated collar and vernier	
622	Nachet's micrometer eyepiece with micrometer	

602 Interesting form of measure by Plural
Unusual Monetary of the Hittite

[illegible]

... piece by Zeiss, [illegible]

... ander, both in brass [illegible]

... various single [illegible]

... various [illegible]

[illegible]

628 This is a very scarce form it was designed by Julius Delby for the detection of objects in one of the instruments & the arrangement under the other. Note this is not a binocular microscope but really two microscopes & they can be used independently. Crisp had this specially made for him by Beck & I don't think that any others were made.

629 This is for the investigation of metals & made. high temperatures the specimen under examination was heated by a Bunsen burner it is fitted with 2 square steel pressure & a good objective

631. The circular plate in a brass solar microscope is not very common

637 A complete & early lantern microscope

639 Fellow of lot 532 same notes apply

642. The smallest microscope in the Collection

643. Odd form of Chas. Ingelow lantern

	623	Burch's reflecting micrometer, a stage micrometer (millimetres) by R. & J. Beck, and two others	
	624	Micrometer stage	
	625	Beck's Krato meter eyepiece, and an eyepiece with an adjustable slit	
£3	~~626~~	~~Four micro photographic fittings, and a mounted lantern condenser~~	~~8. 0.~~
	627	Nine various eyepieces	
£10	628	Dery's twin microscope, with mechanical motions in both directions to the stage forceps, carrier fitted with stage forceps, and two eyepieces by R. & J. Beck	£10. 10. 0
£7	629	Kuhn's chemical microscope for high pressures, fitted with square-ended nicol prism and analyser special objective, eyepiece and condenser	
	630	Expensive calliper reading microscope with eyepiece and objective, by Meisner, Berlin	
75/-	631	Solar microscope of unusual design	£1. 10. 0
	632	A student's microscope by Klon & Muller, and another fitted with eyepiece and objective	
	633	Three student's microscopes, fitted with eyepieces and objectives	
	634	Microscope, incomplete, and another	
40/-	635	Two student's microscopes	16. 0
	636	Projection microscope by John Browning, with rack adjustment	
90/-	637	Antique projection microscope with fittings, in case	£1. 5. 0
50/-	638	Youth's microscope with fittings, in case	18. 0.
£4	639	James' exhibition microscope	£2. 0. 0
35/-	~~640~~	~~Eight exhibition slides, including a fine specimen of the scarce fairy fly~~	~~£1. 4. 0~~
	641	Twenty opaque and transparent slides	
35/-	642	A microscope in the form of a seal	£1. 0. 0
75/-	643	A curious projection microscope, and four various fittings	£2. 7. 6
	644	A polished mahogany fitted microscope cabinet, containing live box, vial holder, stage forceps, objectives, and other fittings	

£6 645 Warrington's portable microscope with objective, and other fittings, in case — 2. 0. 0

75/- 646 An old projection microscope, and part of another — 3 0. 0

647 Warrington's portable microscope with eyepiece

65/- 648 Matthew's portable microscope with objective eyepiece, and a few fittings, in case — 2 5. 0

649 An aquarium microscope, and another

650 A projection microscope with rack adjustment, and a spectroscope stand

£6 651 A double-bodied microscope, by Nachet

652 Abbé's apertometer by Zeiss — £5. 0 0

75/- 653 Curious wooden microscope, and another 2. 0. 0

654 A Fourcault prism, and a revolving selenite stage

655 Two mounted nicol prism polariscopes, and 2 ditto analysers

656 Rotating polariscope fitted to spring stage, by Bausch & Lomb, and a large nicol prism polariscope

657 Reflecting polariscope to fit over mirror, nicol prism ditto, and 2 other nicol prisms

658 Two copies of F. A. Nobert's defraction rulings in case—3001 lines in Paris inch, and another mounted

659 Abbé's analysing eyepiece

660 Six odd polariscope fittings

661 A reflecting polariscope, a mounted nicol prism, and 7 fittings for polariscope

662 Three pieces of chilled glass, 3 prisms, a cube of uranium glass, and a $\frac{1}{4}$ wave plate

663 A dichroscope by Hoffman, Paris, with specimens

664 A ditto lot

665 Three substage condensers, 1 by Powell, and 2 by Ross

£8 666 Expensively made microscope with rack adjustment, graduated fine adjustment, by Ross — £8 0 0

667 Binocular magnifier by Beck, on stand

645 A rare form of portable microscope
Can be used as an aquarium, dissecting,
& trough microscope designed by Warrington
who was a F.R.M.S. F.R.S. & the
discoverer of glycine

648. Ingenious & unusual form of portable
I have never seen another

651. A good form of microscope, showing
how the people can use one instrument

652 Curious wooden model - probably
a work shop model

666 A very fine & beautifully made
clock model by Andrew Ross
special attention is drawn to the
substantial foot & struts to strengthen
the same also to the solidly made
mechanical stops & to the general
finish I consider that this is
one of the best things in the Crich
Collection it is by far the most beautiful
example of Ross work I have ever seen

£76 Dr. Nix's Embrological Microscope made by Hartnack very unusual form I have only seen 1 other not so good as this.

668 Student's microscope with eyepiece and objective, and a small dissecting microscope

669 Expensively made micrometer stage with rack movements and reading by Vernier

75/- 670 Two expensive hot stages, and a spirit lamp £3. 0. 0.

671 A triple nosepiece, a substage superstage, and 2 pairs of safety rings

672 Dr. Matthew's calliper eyepiece, "B" eyepiece with 2 indicators, "C" eyepiece with indicator, and 2 others

673 Four microscope stages

674 Stand for dissecting microscope by Beck, and a ditto by Chevalier fitted with a power

675 An expensively made plane table, a circular protractor divided on silver and reading by Vernier, by Negretti & Zambra

£15 676 An expensively made drawing microscope, rack coarse adjustment with scale, horizontal eyepiece and special objective, in mahogany case, by Hartnack - - - - - - - - - - - - - - - - £9 0. 0.

677 A stand with rack adjustment for dissecting microscope, by Powell & Lealand, and another

678 Demonstration microscope with eyepiece, and 2 others

75/- 679 A portable microscope by Nachet, in case, with eyepiece and 2 objectives

680 Student's microscope, rack coarse adjustment, fitted with eyepiece, by Bausch & Lomb

681 Dissecting microscope by Chevalier, fitted with Brucke lens

682 Eight various eyepieces

683 Eight odd objectives

£5 684 Fuss's reflecting goniometer microscope, fitted with special square cut nicol prism analyser, divided on silver and reading by Vernier - - - - - - - - - - - - - - £5. 0. 0

A very finely made & rare form of Mineralogical Microscope

685 Kaleidoscope in case, stand for dissecting lens with ball and socket movements, another stand, and a small microscope

686 Student's microscope by Siebert with eyepiece and objective, and another with eyepiece

85/- 687 Small binocular microscope - - - - - - - - £2. 2. 0

688 Two dissecting microscopes, and another by Zeiss, with power

689 Student's microscope, and an antique ditto

690 Expensively made dissecting microscope with rack adjustment, by Klonne & Muller

691 Student's microscope, rack coarse adjustment, with eyepiece, by Powell & Lealand

£5 692 Microscope of unusual form supported by monkey, and 2 others - - - - - - - - - - £3. 0. 0

693 Bacteriological microscope, rack coarse adjustment, by Zentmeyer (glass of stage broken)

694 A biological microscope, Wales form, by Watson

£4 695 Student's microscope by Dancer - - - - - - £1. 10. 0

696 Two dozen microscopic objects, including a fine selenite slide, entire lower jaw of rat showing teeth, etc.

£5 697 Plush lined microscope case containing vial holder, diaphragms, and other useful sundries - - - - - - - - - - - - - - - - - - £1. 10. -

698 Two mahogany microscope cases containing a graduated microscope tube, and other sundries

45/- 699 Microscope case containing spot lens, small substage with diaphragms, and large lieberkuhn, etc.

50/- 700 Ten hand glasses and pocket magnifiers, and other sundries in case - - - - - - - £1. 4. 0

Another property.

£45 701 *Beautifully-made exhibition binocular microscope, the actual instrument that gained the 1st Class gold medal Phila-* £39 15

684 A very rare form of binocular
especially noticeable from the fact that
the stage moves to focus the object
made by Samuel Holmes who patented
it. Holmes was a Quaker & his
instruments did not come into general
use. thus their rarity

695 Very curious the manner of making
the stand beside by removing it from
one position & placing it in a closed
aperture should be noticed

[illegible] Special attention is directed to
the beautiful finish of this instrument
which represents the highest class of such
work about 1876 when the mission was
made also to the large number of accessories
which of themselves alone are of considerable
value [illegible]

Cont.d This instrument gained the 1st Class Gold Medal it is built on the original Ross model & in point of time follows after the model represented in lot 666 to this sale hence for this instrument form was not represented in your Catalogue & no Collection can be complete without it

delphia Exhibition, rack rotating mechanical goniometer stage divided on silver to ½ degree, rack adjusting and rotating substage divided on silver and reading to 1 degree, graduated fine adjustment on silver, 8 eyepieces, 4 being achromatic; centering eyepiece, substage condenser, large bull's-eye stand condenser, spot lens, paraboloid, camera lucida, Amici prism, silver side reflector, double nosepiece, 3 live boxes, 4 compressors, Maltwood finder, frog plate, stage bull's-eye, and a number of other accessories in 2 cases; by Negretti & Zambra; originally cost £300

702 *Field's differential ratio polariscope, fitted with a large nicol prism 1¼in. by 2½in., 3 graduated rack rotating selenites, and achromatic substage condenser for the exact application of polarised light; also the companion analyser, rotating by geared rack and pinion, with printed directions*

703 Micro spectroscope, rack adjusting slit variable in two directions, removable companion prism, stage and mirror removable

704 Best quality Ramsden eyepiece, micrometer movements, divided on silver

705 A 4-in. best quality micro objective in case

706 A 3-in. ditto, double combination

707 A 2-in. ditto ditto with lieberkuhn

708 A 1½-in. ditto

709 A 1-in. ditto

710 A ½-in. best quality micro objective, graduated correction and lieberkuhn

711 A ¼-in. ditto, ditto

712 A ⅙-in. ditto, ditto

713 A ⅛-in. ditto, ditto

714 A dense glass spectroscope prism, faces 2in. by 1½in., and another 1½in. by 2⅜in., for a camera obscura

715 An analysing eyepiece fitted with adjustable crystal holder, and revolving tourmaline in cap

716 A single air-pump with fittings, etc.

717 A dumpy level, 1⅝in. object glass, and 2 levels, by Yeates

718 A large photographic lens with arrangements for diffusion of focus, by McLean and Melluish, London ; in case

£4 719 Beautifully-made antique 18th century chemical balance, in mahogany Chippendale case, with 2 levels, weights, etc., in drawers (glass cracked)---------- £5. 5 0.

720 Astronomical telescope, 3in. object glass, eyepiece and sun cap ; no stand

721 Powerful 3-draw telescope and brass stand for same, to screw into tree or window frame

722 Microscope object cabinet, with mahogany glass-fronted door, to hold 1000 slides, flat

723 Antique mahogany-fronted specimen cabinet, of 6 drawers, cut-glass knobs

£6 724 Portable microscope with rotating stage, fitted with 2 capped eyepieces, objective, camera lucida, live-box, and other fittings ; in mahogany case, by Moginie-- 4. 15. 0.

725 A 3-in. microscope objective by R. & J. Beck

726 A 1½-in. and ¼-in. microscope objectives by Hartnack

727 A 1-in. best quality microscope objective by Powell & Lealand, with lieberkuhn ; in case

728 A ½-in. microscope objective, with correction collar, by Ross

729 A ¼-in. microscope objective by Powell & Lealand, with correction collar

730 A ¼-in. microscope objective, with graduated correction collar, N.A. ·76, and fitted with lieberkuhn, by Powell & Lealand

731 A ¼-in. microscope objective, graduated correction collar in case, by James Smith

732 Portable microscope, eyepiece, a double objective, live box, etc., in case, by Crouch

733 Bull's-eye stand condenser, 2⅞-in. lens, and camera lucida, by Powell & Lealand

719 This Semi Balance closely follows a form in South Kensington which was made by the celebrated Optician Ramsden & I have no doubt it was made by him. This Balance are extremely rare.

742 This very ingenious Micrometer was specially designed so that it should be immediately ready for use without any setting up & can be used in any position.

734 This is a Ross 1837 dissecting Microscope with a Compound body added by Chevalier

734 This is a very Complete Microscope to be made in wood it has a rotatory stage also mechanical movement to the stage which conducts it to the original working [illegible]

744 A very fine early 19 Cent Wheel Cabinet showing the Poesis the polyhedron (really a number of prisms joined together) from which develops the Convex & Concave lenses such a Complete set in Case is very unusual I have never seen a finer one & it will always be a treasure to any Collector

£4. 734 Student's microscope in case, with fittings by Ross — — — — — — — — — — — — £1. 6 0.

735 Bull's-eye stand condenser by Watson, and mineral holder by Beck

736 Graduated draw-tube with capped eye-piece and erector, by Beck ; and a number of other sundries, in fitted mahogany case

£6. 737 Antique wooden microscope, and another antique microscope — — — — — — — — — 3 15 0

738 Dissecting microscope by Ross, with rack adjustment in both directions, and 1in. with lieberkuhn, ½in. with lieberkuhn, ¼in. and $\frac{1}{10}$in. objectives

739 A set of 50 lantern slides—The Holy Land, in grooved box

740 A set of 50 lantern slides in grooved box—Egypt

741 A set of 50 lantern slides—Views of Venice, Florence, etc.

742 Twenty-five lantern slides, microscope objects, diatoms, etc., with reading ; and 25 others, in lined safety travelling case

743 Beautifully painted set of 33 astronomical slides, some mechanical, with printed lecture, by Carpenter & Westley

744 Beautiful set of 39 slides, of the Kings and Queens of England, in box, all by Carpenter & Westley

745 Lantern slide viewer by Robinson, and a number of fine art slides for same

746 Rectangular concave mirror 8½in. by 6½in., in silk-lined morocco case, by Carpenter & Westley

747 A fine set of lenses and half-lenses, concave, convex and cylindrical ; a prism, and a polyhedron, in fitted mahogany case, by Carpenter & Westley — — — — — — — — — £8 4. 10 0

748 A mahogany cabinet containing Iceland spar and other prisms, quartz, and lenses, etc., for light experiments

749 A splendid set of 50 lantern slides, comprising views of Rochester, Exeter, Canterbury, and Worcester Cathedrals ; also Castle Ashby, Tewkesbury Abbey, and continental cities

PHOTOGRAPHIC APPARATUS, &c.

751 A 5 by 4 Adams Yale, with Cooke F/6·5, 22 film sheaths and canvas case

752 A ¼-plate Adams Yale, no lens, changing box and 12 sheaths

753 A ½-plate Lancaster field, with a rapid rectilinear lens, a single lens, 3 double dark slides and leather case

754 A ¼-plate Adams focusing Ideal, with Ray rapid rectilinear lens and 12 sheaths

755 Post-card roll film camera, no lens, but automatic shutter

756 A ¼-plate Eastman Kodak, with single lens, 3 double dark slides, focusing screen, and leather case

757 No. 3 "B" Alvista, 9in. by 3¼in., with rapid rectilinear lens

758 A ¼-plate roll film film Eastman with rapid rectilinear lens

759 A ¼-plate Lizars Challenge reflex, with 3 double dark slides; no lens

760 A ¼-plate focal plane camera, no lens, 6 double dark slides and leather case

761A No. 4 Panoram Kodak, model "B," with single lens, leather case

762A A ¼-plate Shew with rapid rectilinear focusing lens, Thornton-Pickard focal plane shutter, Adams' 12-plate changing box and leather case

761 No. 4 bull's-eye Kodak, 5 by 4 box-form camera, in fine condition; always in focus, fine lens

762 No. 5 cartridge Kodak ½-plate, double extension, fine rapid rectilinear lens, automat shutter; splendid condition, in leather case

763 A 9 by 12 folding camera, easily adaptable for ¼-plate, rack focusing, Zeiss double anastigmat lens F/6·3 (Ica Tessar), fully speeded shutter, film pack adapter and velvet-lined leather case

764 No. 3 Brownie box-form Kodak, ¼-plate; as new

765 Goerz Dagor lens, 165mm. (6½in.), post-card or 5 by 4 size, compound shutter, works at F/6·8 (is marked German marking F/4·5)

766 Premo 5 by 4 folding camera, hand or stand, fine rapid rectilinear lens, Unicum fully-speeded shutter, 3 double dark slides and leather case

767 Goerz folding Tenax, 9 by 12c.m., double extension, rack focusing, Goerz Dagor lens F/6·8, 130mm. compound shutter, film pack adapter ; fine outfit

768 A 7 by 5 rapid rectilinear lens, and 2 other lenses

769 Fine Beck symmetrical lens, ½-plate, in fully speeded Unicum shutter

~~770 Antique small bone microscope~~ + 20 C

771 Three lantern lenses and mount

772 Fine ¼-plate Frena box camera

773 *A* 1A *special folding Kodak, 4¼in. by 2¼in., in beauitful condition, Zeiss Tessar lens F/6·3, compound shuitter ; a magnificent instrument*

774 Very powerful astronomical or terrestrial telescope with 3 eyepieces, and brass tripod ; all in wooden case

775 Post-card size roll film camera, double extension, rack focusing, Ross homocentric lens F/6·3, compound shutter (all speeds to 1/250th), antinous release and leather case

776 Kodak daylight developing tank, 3½in., for all size spools up to and including post-card size

777 A 3A folding pocket Kodak, post-card size, fine rapid rectilinear lens, speeded shutter, and leather case

778 No. 2 Ensignette de Luxe as new, with fine rapid rectilinear lens, speeded shutter, focusing model in lined leather case

779 Fine pair of Watson's 6x prism binoculars, separate eyepiece focusing, strong leather case ; practically as new

780 Bausch & Lomb 6x prism binoculars, separate eyepiece focusing; tan leather case

781 Mark VI. prism compass in tan leather case

782 A 3A folding Kodak post-card size, fine R.R. lens, automat fully-speeded shutter, leather case; fine condition

783 Marion's square bellows ½-plate stand camera with fine R.R. lens, 3 brass-bound double dark slides, ¼-plate carriers and leather case

784 Fine Crouch microscope with coarse and fine adjustments, 1in. objective, double nosepiece, eyepiece, condenser; all in mahogany case

785 Fine student's microscope by Swift with adjustment 1in. and ⅙in. objectives; eyepiece and mahogany case

786 Very powerful long-range telescope

787 A pair of 6x prism binoculars by Manhattan Optical Co., Zeiss lenses, central focusing, eyepiece adjustment and leather case; very fine condition

788 Pair of powerful field glasses in leather case

789 A ¼-plate magazine camera with fine rapid rectilinear lens, speeded shutter, magnifiers, etc.

790 A fine old-fashioned whole-plate studio camera, portrait lens and a double dark slide

791 Very heavy wood tripod for whole-plate camera

792 Thornton-Pickard time and instantaneous shutter for large lenses

793 No. 1 folding pocket Kodak, old model but effective

794 Goerz folding Tenax ¼-plate Manufoc model, double extension, rack focusing, Goerz Dagor lens F/6·8, compound shutter, film pack adapter and leather case

795 A ¼-plate folding camera with good rapid rectilinear lens, no slides

796 *Thornton-Pickard ¼-plate Ruby, morocco leather-covered, reflex camera, long extension; special Cooke F/4·5 anastigmat lens, focal plane shutter, 3 double dark slides, film pack adapter and velvet-lined leather case; in perfect and new condition, a magnificent outfit*

797 Thornton-Pickard 3-fold best quality ash tripod, with top and straps, as new

798 *No. 1 special folding Kodak 3¼ by 2¼, as with Bausch & Lomb anastigmat lens F/6·3, Velosto fully-speeded shutter up to 1/300th second; velvet-lined case*

799 Ensign folding roll film camera, ¼-plate with Ensign anastigmat lens F/7·7, Ensign sector shutter, all speeds to 1/100, adaptable for plates

800 Cooke ½-plate (7½in.) Series III. anastigmat lens F/6·5, as new

801 Three folding Kodak spools, 6–12 exposure, cost 27/–

802 Ditto

803 No. 4 cartridge Kodak for 5 by 4 roll films, double extension, fine rapid rectilinear lens, speeded shutter

804 Large oil floating compass by Negretti & Zambra; in leather case, cost £9

805 Prism binoculars, 8-magnification, eyepiece focusing, leather case; a very brilliant pair of glasses

806 Strong mahogany ½-plate camera by Hare, with fine Ross lens, one double dark slide, magazine plate-holder and leather case

807 Half-plate camera with 6 mahogany double bookform slides

808 Bausch & Lomb prism binoculars, 6-magnification, tan leather case; excellent glasses

809 Six Goerz 9 by 12cm. film packs, perfect

810 Ditto

811 Kershaw prism binoculars 6x, in leather case; the best English glass

812 Fine sextant in case, by Le Roy

813 Vest pocket Kodak, Ross homocentric anastigmat lens F/6·3, speeded shutter, leather case

814 A ¼-plate Klito de Luxe folding camera, double extension, fine anastigmat lens, Ensign sector shutter, 6 slides and leather case

815 A ¼-plate roll film No. 3 folding Brownie; fine condition

816 Pair of opera glasses in gilt and mother-of-pearl; very fine

817 Goerz Manufoc ¼-plate folding Tenax, double extension, rack focusing, Goerz Dagor lens anastigmat, F/6·8 compound shutter, 3 slides and film pack adapter; as new

818 No. 3 autographic folding Kodak, ¼-plate, as new; Goerz double anastigmat lens F/6·8, Ibso fully-speeded shutter; very fine lot

819 *Post-card folding Carbine, latest model, Cooke anastigmat lens F/6·3, Velosto shutter, with speeds to 1/300th second*

820 A 2A boxform Brownie, 4¼ by 2½, and excellent fixed focus Kodak

821 A 5 by 4 folding hand and stand camera, fine rapid rectilinear lens, adjustable shutter, 3 double dark slides and case

822 Zeiss Unar F/6·3 anastigmat lens in compound shutter, speeds to 1/250th, 5½in. focus; as new

823 Vest pocket Kodak, autographic model, in leather case

824 No. 2c Junior autographic folding Kodak, fine rapid rectilinear lens, speeded shutter; very little used

825 Powerful pair of field glasses in leather case

826 Fine pair of Ross prism binoculars, 6x, in strong leather case; practically as new

827 No. 2 Brownie boxform camera, 3¼ by 2¼, as new

828 Student's microscope of fine quality and very compact, ¼in. and 1in. objectives, bull's-eye condenser, live box, specimens; all in mahogany box

829 A ½-plate stand camera, fine rapid rectilinear lens, 3 bookform mahogany slides, roller blind shutter, limp case

830 Two leather cases for No. 3 folding Kodaks

831 Studio camera with fine portrait lens, in rack focusing mount and slide

832 Five watch pocket Klimax slides

833 Eight ¼-plate single cameo slides

834 Six vest pocket size slides

835 A fine pair of Zeiss 8x prism binoculars in excellent condition

836 A 4-draw telescope, very powerful marine model by Broadhurst Clarkson & Co.; tan leather covered

837 Parcel containing 3 double dark slides, Watkins Bee meter, Nucrometer focusing cloth and film carriers

838 Three leather cases for cameras, Nos. 1 and 1A

839 Six vest pocket slides for vest pocket Tenax, etc.

840 *A 13 by 18cm. Favon folding, hand or stand camera (easily adaptable for ½-plate), double extension rack focusing, reversing back, Zeiss double protar lens F/6·3, 8in. and 14in. foci, compound shutter, 3 double dark slides and velvet-lined solid leather case*

841 Fine tan leather case, velvet-lined for camera

842 Holborn Ilex ¼-plate magazine camera for 12 plates, fine rapid rectilinear lens, adjustable shutter

843 A 3½ by 2½ box Frena camera; fine quality lens

844 Stereoscopic Co.'s twin lens reflex camera, ¼-plate, with fine black band lens F/6 for 12 plates, in strong leather case

845 Special 3½ by 2½ box Frena camera with Steinheil rapid rectilinear lens and magnifiers

846 Strong wooden tripod for ½-plate camera, with top

847 A 3A folding Kodak, postcard size, fine Kodak anastigmat lens F/6·8, fully speeded shutter, tan leather case ; splendid condition

848 A 9 × 12cm. and ¼-plate folding plate camera, fine rapid rectilinear lens in speeded shutter, with 5 metal slides ; in first-class condition

849 A 3¼ by 2¼ Premoette camera for film packs ; a remarkable compact pocket camera

850 Small upright model microscope in case, with slides ; useful instrument

851 A ¼-plate magazine camera, 3 sheaths, in fine condition

852 Mark VI. prism compass in tan leather case

853 Shew ¼-plate Xit camera, Ross Goerz lens, 6 double slides, all bound in aluminium ; in leather case

854 A vest pocket Kodak camera with autographic back, in case, and 4 new Goerz-Tenax films for same

855 A ¼-plate Salex reflex camera, F/5·6 Ross homocentric lens, focal plane shutter and 3 double slides ; a fine lot

856 A ¼-plate Adams' Natti camera, Ross homocentric lens, speeded shutter, Premo film pack holder and carrying case

857 A fine Beck deerstalking telescope in sling case

858 Oliver No. 3 typewriter

859 A new Petroliti table lamp

860 A Macaura Pulsocon

861 Tropical and other clothing, various, a bundle

862 No. 3A Kodak developing tank complete, 3 printing frames, and a 12 by 10 washing tank

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, DECEMBER 14th:—

China; Ivories; Cloisonné; Ethnographical Specimens.

TUESDAY, DECEMBER 14th:—

High-class Oil Paintings and Water-Colours,
by order of Messrs. J. Lawrence & Co.

THURSDAY and FRIDAY,
DECEMBER 16th and 17th:—

Scientific and Photographic Apparatus; Miscellaneous Property.

TUESDAY, DECEMBER 21st:—

By order of the Trustees of the London Museum.
100 lots of Antiquities, found in London; being duplicates from the London Museum.
Also Oriental Bronzes; Cloisonné; Ivories; Native Curios; Weapons, etc.

WEDNESDAY, DECEMBER 22nd
(instead of Friday, December 24th).

Photographic and Scientific Apparatus; Miscellaneous Property.

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND PHOTOGRAPHIC APPARATUS AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes Microscopes, Telescopes, Cameras, Lenses, Lanterns, Cinematographs, Theodolites and Levels, and every class of Scientific Instrument; Lathes and Tools, Furniture, Silver Plate, Jewellery, Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES, ARMS AND ARMOUR, IVORIES, ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to Entomology, Ornithology, Conchology, Minerals, Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London." Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

Phone : Gerrard 1824. Sale Nos. 13,245—13,246

Sale to commence at **12.30** *o'clock each day.*

THURSDAY and FRIDAY, January 20th and 21st, 1921.

A CATALOGUE OF

PHOTOGRAPHIC AND SCIENTIFIC APPARATUS

INCLUDING

CAMERAS WITH LENSES

by Cooke, Ross, Goerz, and other makers;

The Fourth Portion of the Celebrated Collection of

MICROSCOPES,

formed by the late Sir Frank Crisp, Bart., including many fine instruments, objectives, oil immersions, Diamond writing and accessories.

PRISMATIC BINOCULARS, LANTERN SLIDES, ELECTRO-THERAPEUTICAL APPARATUS, etc.

OFFICE FURNITURE and EFFECTS;

China, Glass, Pictures, Plated Items, Typewriters, Postage Stamps, etc.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On THURSDAY and FRIDAY, January 20th and 21st, 1921,

At **12.30** *o'clock each day.*

On view the day prior from 12.30 till 5.30 o'clock, and Mornings of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address: AUKS, RAND, LONDON. **Established 1760.**

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

*** *Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques.

A CHARGE FOR WAREHOUSING WILL BE MADE ON LOTS NOT CLEARED PROMPTLY.

Telephone :—
GERRARD, 1824.

Telegrams :—
AUKS, RAND.

A CATALOGUE

FIRST DAY'S SALE

Thursday, Jan. 20th, 1921.

AT **12.30** O'CLOCK.

ON VIEW:

Wednesday, 12.30 p.m. to 5.30 p.m.

Thursday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
1	Two gentleman's overcoats
2	A costume (navy serge), and tweed skirt
3	A light blue blanket cloth coat
4	A fox fur stole
5	A dress suit
6	Overcoat
7	Pair laced top boots, size 7, and pair " Rugger " boots, size 7
8	British warm, and tunic
9	Twelve reels silken cords
10	A silk jumper, new
11	Thirty-two ounces best wool
12	Wool jumper, new
13	Pair lady's shoes
14	Child's white serge coat and white felt hat, 4 Peter Pan suits, woollen jumper, and 1 other
15	Lady's silk sports coat and girdle, and long white woollen coat

16 Pair of lady's boots and pair of lady's black brogue shoes, fitted Phillips' rubbers
17 Green woollen jumper, child's tammy, and a lady's riding habit
18 Polo saddle with numnah, bridle, 4 bits, and sundries
19 Gentleman's tweed suit
20 Leather bag, pair gentleman's boots, pair slippers, and pair of trousers
21 Various coats, vests, and trousers, in bag
22 Carpet and 2 fur rugs
23 Jaeger sleeping bag, and waterproof canvas ditto
24 Gentleman's waterproof (by Cording & Co., of Piccadilly), in excellent condition
25 Gentleman's light-weight waterproof, in good condition
26 Two rolls grey underfelt, 24 yards
27 A Paisley pattern table cover
28 A lady's riding habit, and a lady's land suit
29 Gentleman's mackintosh
30 Fur coat with fashionable skunk opossum collar
31 A ditto

GRAMOPHONES, RECORDS, &c.

32 A handsome hornless gramophone, dome top, double spring motor, and sound box, condition as new
33 Twenty various 10-in. and 12-in. records
34 One dozen 10-in. records
35 One dozen 12-in. records, in album
36 One dozen records, in good condition
37 Six 12-in. H.M.V. and Columbia latest dance records, perfect condition
38 Grand concert sound box, mellow tone
39 Six double-sided records, latest waltzes
40 Twelve H.M.V. and Columbia, including Wyoming and Inspiration Waltzes
41 Twelve Zonophone and H.M.V., good selection
42 Twelve Regal, good condition
43 Large sound box, fine tone
44 Ditto

45 Twenty-four records, faulty
46 Ditto
47 Ditto
48 Ditto
49 Ditto
50 Fourteen records, faulty
51 A small single-action Grecian harp, by Erard

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52 A large fishing reel by Holroyd
53 A fishing reel and line
55 1,000 "Revue" cigarettes
56 Ditto
57 Ditto
58 Ditto
59 Ditto
60 Ditto

PHOTOGRAPHIC APPARATUS, &c.

61 Four printing frames, squeegee, focusing cloth, washing rack, ruby glass, and two camera cases
62 An old studio camera, and 12 by 10 washing tank
63 Studio camera, screen and dark slide, two tripod cases, 4 camera cases, tripod and Ensignette developing tank
64 Three shutters and stereoscope
65 Postcard size roll film and plate camera, rapid rectilinear lens, in fully-speeded shutter
66 Large box for use as portable dark room, with 12 by 10 glass plate developing tank, etc.
67 Ross symmetrical lens, 6-in. focus
68 Portrait lens, No. 167443, F/3·2, by Hugo Meyer
69 Kodak Brownie daylight enlarger, $3\frac{1}{4}$ by $2\frac{1}{4}$ to 7 by 5, printing frame, tin collar box, and contents
70 Box ferrotype plates
71 Kodak tripod, two-fold, with metal top, new
72 A 3-fold ash tripod for turn-table, best quality, very fine
73 A 3-fold ash tripod for turn-table, $\frac{1}{2}$-plate camera, fine

74 Whole-plate camera, three double dark slides, Thornton-Pickard lens
75 Oil enlarging lantern, easel, and large dark slide with lens
76 A 5-in. slide rest
77 Goodell hack saw frame with attached vice
78 A 12 by 12 Dallmeyer studio camera with a single and a double dark slide
79 A 5 by 4 Despatch camera
81 Box containing developing dishes, printing frames, measures, stoppered bottles, washing tank, dark-room lamp, etc.
82 A ½-plate long extension camera, unfinished, lens for same, with tripod and focusing cloth
83 A ¼-plate pocket folding camera and 9 dark slides for same, a ¼-plate enlarger, and several books on photography
84 Staley portrait lens, A Series, wide angle lens, by Horne & Thornthwaite, view-finder, and roller blind shutter
85 Frena ¼-plate camera, and tripod with top for whole-plate camera
86 Lancaster ¼-plate camera, portrait lens, two ½-plate printing frames, and four ¼-plate ditto
87 Two mechanical slides, photographic papers and sundries
88 Eleven torch cases, camera case, and sundries
89 Two large developing dishes, 2 porcelain ditto, drying rack and a tank
90 Sixteen large coloured transparencies
91 Pestle and mortar
92 Ross 5-in. portrait lens, in case
93 Burnisher and 2 dipping troughs

FURNITURE AND EFFECTS.

94 Overmantel with 3 photogravures, and a large picture
95 Mahogany hat stand
96 Circular mahogany table on tripod feet
97 Pedestal Grand gramophone, with record cupboard, double spring motor
98 Oliver typewriter, No. 3
99 A "Williams" typewriter (in working order)

100 *An Elliott-Fisher book-keeping machine*
101 *An Elliott-Fisher book-writer*
102 *Six Ediphone dictating machines, etc., and a machine for shaving cylinders*
103 A 4-ft. stained writing table with pedestal cupboard
104 A similar table
105 A 5-ft. stained deal pedestal writing table, with 4 drawers in each pedestal
106 A 3-ft. stained writing table with drawer
107 A 4-ft. 6-in. writing table with 2 drawers
108 A 5-ft. stained folding table
109 A large pedestal writing table, 6ft. by 4ft., with 4 drawers in each pedestal
110 A 4-ft. 6-in. writing table with 2 drawers
111 A similar lot
112 A similar lot
113 Seven Windsor chairs
114 Six ditto
115 Three wood correspondence boxes, stationery rack, inkstand, and a quantity of inkpots, rulers, etc.
116 Two sets of 4 each deal shelves
116A A HANDSOME POLISHED WALNUT, 15 SECTION, AMBERG CABINET LETTER FILE, ROLL SHUTTER FRONT
117 Carbon paper, lot of 9 boxes, 8vo, black
118 Ditto
119 Ditto
120 Ditto
121 Ditto, 7 boxes, foolscap, red
122 Ditto, 9 boxes, foolscap, black
123 Ditto, ditto
124 Ditto, ditto
125 Ditto, 9 boxes, foolscap, purple
126 Ditto, 9,000 sheets, purple (9 boxes of 1,000)
127 Ditto, 800 sheets, purple (1 box); and ditto, 500 sheets, purple (1 parcel)
128 286 brand new filing cases, 12in. by 9½in. by 1½in.
129 450 ditto, but labels written upon
130 Six loose-leaf ledgers, each fitted 2 Yale l ocks (keys and master key with same)
131 Ditto, ditto
132 Ditto, ditto

133 Six loose-leaf ledgers, each fitted 2 Yale locks (keys and master key with same)
134 Ditto, ditto
135 Twelve transfer vols., to go with same
136 A dozen stationery racks
137 A dozen paper racks
138 A gross inkpots
139 A small weighing machine
140 A postage stamp affixing machine
141 A ditto
142 A box file, Warwick file, 2 sequence ditto, 2 spring ditto, 3 hecto. trays, box hecto. sheets, and a tin hecto. compo.
143 Two hanging lanterns, and an oxidized 2-light dining-room fitting
144 A handsome oxidized 5-light electrolier, with globes (new, and ready for fitting)
145 A single-light ditto, large globe
146 Brass curb
147 Set of 3 brass bedroom fenders
148 Pierced brass fender
149 Antique mahogany commode, with pail and liner, brass drop handles
150 Set of 6 antique chairs in hair cloth
151 Oak office washstand, with enamelled basin
152 Anthracite stove
153 A ditto
154 Large white enamelled bread and bacon cutter
155 Child's walnut-frame arm-chair, in tapestry
156 Large punching machine, with handle, by Melhuish
157 A 6-fold embossed screen
158 Plated teapot
159 Hanging shrine, writing paper case, and a pair of lacquer coasters
160 Ebony desk, inlaid with quills, and opium pipe (A.F.)
161 Antique fire-screen with wood-work panel in white and gilt frame
162 A pair of bronze candlesticks
163 An electric cooking stove for 200-volt circuit, and a Primus stove
164 Sixty large upright incandescent gas mantles
165 Two bread cutters

166 A 4-tier mahogany whatnot with drawer
167 W. Oliver—" Scenery in the French Pyrenees," and a number of prints and photographs
168 A 24-drawer oak " Wabash " filing cabinet
169 A mahogany cupboard of pigeon-holes
170 An oak folding newspaper reading stand on pillar and claw stand, and another adjustable reading stand
171 A mahogany filing cabinet and an office wash-stand with some fittings, an oak key cabinet and 2 office baskets
172 An expensive oak filing cabinet of 25 drawers, in 5 sections
173 A 3-ft. 6-in. chest of 3 long and 2 short drawers, satin walnut front
174 A 3-ft. 6-in. mahogany-fronted and oak chest of 3 long and 2 short drawers
175 An antique mahogany commode
176 A small bamboo table with shelves under, small painted octagonal table, and a copper fire-screen

MISCELLANIES.

177 A patent trousers presser and stretcher
178 A small table stereoscope with number of slides, and a large number of Japanese muff warmers
179 Two water-colours in gilt frames, and an oil painting in gilt frame
180 A well-executed water-colour drawing by J. Clapham, in gilt frame
181 Three old engravings—Scriptural subjects, in black and gilt frames
182 Seven pictures framed and glazed, and 2 frames
183 A portfolio of water-colour drawings and prints, etc.
184 A well-mounted stuffed badger in glass case
185 Three glass cases containing well-mounted specimen birds
186 Ditto
187 Three fine specimens of Venus flower basket, under glass shades ; and a mounted fish, ditto
188 The Works of Samuel Johnson, LL.D., leather bound, 11 vols.

189 Wordsworth Poetical Works, 6 vols. ; Atlas of Principal Cities of the World, Astronomical and Geographical Diagrams, and Morant's Geological Chart

190 Old engraving, framed—Blind Fiddler ; painting in oils, crayon drawing, and another

191 Charming water-colour drawing, gilt frame—York Minster

192 Old painting in oils—Goats

193 Eleven 12-in. gramophone records, and one other (A.F.)

CHINA, GLASS, &c.

194 A pair of 12-in. 2-handled vases with miniature medallions of lady and gentleman

195 Two large decorated earthenware pitchers, and a large willow ware bowl (repaired)

196 A pair of 14-in. Continental spill shaped vases with metal handles and stands

197 A pair of openwork Dresden vases (A.F.), pair of Dresden fern-pot holders, and 3 others (A.F)

198 A Wedgwood teapot, 2 other small teapots, old English beer jug, pair of 2-handled mugs and 2 others (A.F.)

199 A 16-in. highly-decorated china plaque, a 12-in. Wedgwood tray, and a decorative Staffordshire plate

200 A pair of 14-in. Staffordshire dishes and 7 decorative plates and dishes

201 A Davenport sauce tureen and cover, a ditto, and another tazza-shaped bowl, 7 old china jugs, and a 2-handled bowl

202 A 9-in. bowl, 7-in. openwork ditto, 2 other bowls, 2 Coalport china baskets (1 A.F.), openwork dish and 6 small plates and dishes

203 A pair of 9-in. blue china figures

204 A pair of Dresden china groups of figures (1 A.F.)

205 A pomade pot and lid, china group, Victoria Jubilee mug, and 30 pieces of china, various

206 A willow sauce-boat and cover, trinket box and cover, Etruscan-ware jug, Chinese spill, 5 large vase covers with kylin handles (some A.F.), and a jug-shaped vase
207 A large Dresden flower-pot holder, and a large ditto jardinière and cover
208 A 13½-in. Sèvres vase decorated with birds and flowers
209 A pair of busts (A.F.), pair of 11-in. white figure flower-holders, 11-in. decorated jug, and 4 other pieces
210 A large jardinière, 2 large earthenware jugs, and a large glass ditto
211 A pair of 18-in. decorated Imari wall plaques
212 An 18-in. and a 16-in. ditto
213 A pair of 16-in. Chinese plaques and an 18-in. ditto
214 A pair of 14-in. figures on marble stands, and a pair of marble stands
215 Two pieces of Venetian glass, glass goblet, cut-glass decanter and stopper (A.F.), 2 vases, and various other pieces of glass
216 Twenty-four cut and other glass scent bottles, etc. (several silver-mounted)
217 An oak spirit tantalus with 3 cut-glass bottles

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218 A pair of 12-in. plated pillar candlesticks
219 A plated salver, 2 cruet frames, cream and hot-water jugs, small bowl, tankard and jug
220 A copper urn
221 An old bronze figure, pair of metal vases, small pair brass ditto, Benares bowl, brass trinket box and 2 other pieces
222 A large soapstone group, 2 small ditto, opium pipe, cachelot tooth and various small pieces of carved ivory and bone
223 A lacquer work-box, ditto glove-box, ditto bowl, carved ivory fan, 3 mosaic paper-weights, miniature in frame, and 6 metal grasshoppers
224 Plated cigar case, papier–mâché bottle, theatrical jewellery and quantity of sundries
225 Fishing reel, wallet of flies, tea caddy, electric coil and sundry small items in tin box
226 An early triptych with figure of Christ

227 A small Japanese cabinet with sliding doors and several small drawers
228 Three mirrors in antique frames, leaded and coloured glass screen, marble inlaid table top, and painting on china in plush frame (A.F.)
229 Four large gilt wall brackets
230 Quantity of mirror and other wall brackets and frames
231 A well-executed miniature of a lady, in frame
232 A saw-backed sword, 2 Court swords, and another sword
233 An old brass church lamp hanging, 3 brass shell cases, leather hat and collar boxes, carved emu egg, elephant's grinder, skull and various natural history specimens
234 A plaster modelling figure and basket of sundries
235 Set of chessmen in box, dominoes, draughtsmen and board, "Minoru" race game, lac draughts board and men, and 2 other game boards
236 Quantity of theatrical clothing etc., in box
237 Two pieces of embroidery, large hanging and quantity of theatrical clothing
238 Two dress coats, 2 waistcoats, and pair of trousers
239 Quantity of books
240 Ditto
241 Pewter dish, English, Eighteenth Century; box with straw decoration, Japanese; spoons (2), Norwegian; scoop, Swiss; and tazza of metal with head of Emperor Maximilian I., Austrian
242 Three old Japanese metal work pictures, in black frames
243 100 copies of old seals, etc., in boxes
244 Two tortoise-shell boxes (A.F.)
245 Twelve hand-painted Dresden plaques
246 A large Mason ware vase and cover, richly decorated (A.F.)
247 Four Persian cups and saucers (stone), bowl, salt-cellar, bottle and stopper (all stone engraved)

248 Two Imari teapots, Chinese ditto and another, pair of faience bottles (1 A.F.), German decorated china pipe bowl, 2 mugs, cream jug and a small jardinière encrusted with blossom
249 Six walking sticks, huntsman's whip, native whip, French bayonet in sheath, a small tray, and a Chinese shoe
250 Forty-six badge brooches in separate boxes, and a cigar-lighter made from a German shell
251 Two plated entrée dishes
252 Two Sheffield-plated vegetable dish warmers
253 Three waist-belts, one silver-mounted and 2 others, 5 spoons, 2 pairs of nippers, and a pair of grape-scissors
254 Silver-mounted cut-glass scent fountain and 2 silver-mounted ditto bottles
255 Two hunting flasks, tea-strainer, 2 decanter stands, 7 medallions and belt with military badge, silver-mounted leather telegram case, chatelaine waist-clasp, and 8 bracelets
256 Circular piqué box and 2 others, and 9 antique cameo brooches in case
257 Flower vase, 2 bracelets, a toast-rack, and 2 Empire telescopic fire-screens
258 Indian pierced border tea tray
259 Electric battery and fittings
260 Striking dial in inlaid case
261 Striking mantel clock in going order, and a quaint brass and copper candlestick
262 A lady's new leather dressing case with silver-mounted bottles and fittings, and ivory-backed brushes

PLATED ITEMS, JEWELLERY, &c.

263 Two large plated dish covers
264 Plated 2-tier biscuit stand with trays, and 6-hole cruet frame
265 Old Sheffield spirit stand (3 bottles)
266 Hot-water jug, 2 toast racks, 2 cruet frames, part cruet frame, 6 china-handled knives and 6 forks
267 Egg-boiler and spirit flask

268 Fine old Sheffield plated railed cruet for 6 bottles (no fittings), 2 basket cruets (no fittings), and Britannia metal teapot
269 A handsome plated waiter with gadroon edge
270 A plated cigarette box and tray
271 Two pairs of silver vases
272 Four meat skewers and 3 other articles
273 One silver frame
274 Silver lamp, 2 ditto vases, and ditto candlestick
275 Four silver-mounted scent bottles
276 Four coral and stone necklaces
277 A coral necklace and pair of ditto earrings, gold mounted
278 Antique cameo brooch
279 Sundry antique jewellery, etc., in box
280 Bronze inkstand
281 Pair of silver salts and spoons, in case
282 Pair of octagonal silver salts and spoons, in case
283 Electro-plated cigarette box, ditto ash tray, ditto Jersey can, pair ditto knife rests, and ditto soda-water bottle holder
284 Electro-plated kettle, stand and lamp
285 Electro-plated round chased tea and coffee set (rose button)
286 Pair of ditto chased candlesticks
287 Electro-plated engraved claret jug
288 Ditto strawberry dish with sugar basin and cream jug
289 Ditto round engraved salver
290 Four plain round electro-plated salts and spoons (on feet)
291 Four chased salts on feet, electro-plated.
292 Pair electro-plated reeded beakers
293 Basket pattern electro-plated pint tankard
294 Two lady's gold dress rings
295 A gentleman's silver 8-day hunter watch, in going order

MISCELLANIES.

296 Twenty oak stair-rods and brass eyes for same
297 Eighteen 12-volt electric bulbs, and 136 touch-light bulbs
298 O-Cedar mop, 3 war relics, electric iron, and sundries

299 Fine specimen zebra-skin complete, crocodile-skin, and 2 hippo.'s tails
300 Three lady's blouses, 2 air cushions, and baby's wool coat
301 Fox-skin, 4 tails, and lady's hat and sundries
302 Oriental needlework cloth, waxed ditto, and an Indian teacloth
303 Miniature portrait of lady, 3 medals and calendar in silver frame
304 Pair of antique bracelets, set cameos
305 Old Toby jug
306 Lady's hair ornament, set garnets, small silver pocket mirror, card case, note-book, and lady's watch
307 Handsome electric radiator and fire-screen, combined
308 Carpenter's saw, and 20 other tools
309 Gentleman's leather waistcoat, lambswool lining, one other, and 4 shirts
310 Two motor jacks
311 Six dozen battens with aluminium fittings, suitable for tripods, banisters, shelving, fences, etc.
312 Weno stereoscopic camera for roll films
313 Carriage clock in case
314 Concert flute, piccolo and flageolet
315 Dress suit and trousers
316 Pair of Sandow's spring dumb-bells, 3 writing cases, pocket-book cover, patent hair-cutter, lady's hair ornaments, field-glass case, chain purse, and number of coins and sundries
317 Sundries, bunting, parasol, etc.
318 Several dozen pendant frames for photos
319 Aluminium tripod
320 Three glass decanters
321 Lawn mower (A.F.), small table, part vacuum cleaner, etc.
322 Seven pictures
323 Canvas valise, leather handbag, 3 motor inner tubes, 6 golf balls and an accumulator (A.F.)
324 Bundles of books
325 Ditto
326 Ditto
327 Marble top washstand, fitted one drawer

328 Two dozen silver brooches
329 Ditto
330 Six dozen rows of beads
331 Six attaché cases
332 Large size garden umbrella
333 Engine cylinder, a sheep-shearing machine in parts, a copper container and a gas heater
334 Lady's opera cloak
335 Box of sundries and large quantity of drugs
336 Large desk
337 Pair rubber boots, and 2 pairs of top boots
338 Two mahogany dining-room chairs
339 Two dozen new Ediswan lamps, 95 volts
340 Two boxes of human hair
341 Large arm-chair (A.F.)
342 Twelve purses, 48 roll gold collar pins, and 48 pairs of links
343 A new canvas side cover
344 Copying press or stand, 2 drawers under
345 A 2-light oil stove
346 Three dozen new purses
347 Japanese box, 2 ivory stands and 4 pairs of spurs
348 Japanese lacquer cabinet
349 Parrot cage, seltzogene and a bedpan
350 Waterproof valise
351 Strong iron-bound chest
352 Motor tool-box and an outer cover
353 Billiard cue in case, 3 golf clubs, 4 umbrellas, curtain poles, etc.
354 Fishing rod box with various rod tops, periscope, etc.
355 Twenty-two books, scientific
356 Forty-two vols. Diamond Poets
357 Hand camera and 3 vignettes
358 Stereoscope
359 Six Japanese prints on rice paper
360 Two engravings on silk and 2 fur necklets
361 Cabin trunk
362 Old panel painting, pewter plate and a ditto mustard pot
363 Two dog baskets and a collar
364 Quantity of books

PICTURES, &c.

365 A set of 4 old French woodcut prints in black and gilt frames
366 A large picture frame and some pictures
367 A pair of coloured sporting prints by J. Leech, framed and glazed
368 An old engraving—"Belinda at her toilet," 2 oil paintings and 2 water-colours, all framed and glazed except one
369 Ten small engravings in gilt frames, 6 others framed, theatrical subjects, small oval and 2 coloured sporting prints; also various portions of gilt picture frames
370 Two large engravings in gilt frames
371 Pair of paintings—Birds, in gilt frames, by ROLAND KNIGHT
372 Collection of drawings, prints and engravings
373 Twenty-four small pictures, framed
374 Ten drawings, paintings, etc., and mirror in wrought iron frame
375 *The Times* War Atlas, quantity of maps various, and Jennings' Landscape Annual, 4 portfolios, Dublin Exhibition album, and another
376 Six pictures
377 Oil painting framed, and 3 pictures various
378 Two large old oil paintings in gilt frames
379 Large engraving, framed—"Sir Fenwick Williams and his officers leaving Kars"
380 Six pictures, various
381 Large unframed portrait
382 Pair of oil paintings, framed—"Chickens"
383 Large oil painting

END OF FIRST DAY'S SALE.

SECOND DAY'S SALE.

Friday, January 21st, 1921.

AT **12.30** O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
401	Two lady's mackintoshes
402	Two ditto
403	Two ditto
404	Three ditto
405	Three ditto
406	Three ditto
407	An 18-carat brilliant and turquoise ring
408	An 18-carat diamond ring
409	An 18-carat gem ring
410	A 9-carat buckle keeper ring
411	Gold bracelet and wrist watch
412	Jewel case containing quantity of silver and miscellaneous jewellery
413	China figure of Cupid
414	Hand-painted dish and two cups and saucers
415	Pair of large Oriental vases
416	Pair of crackle ware vases, and one other
417	Number of ivory tusks and emu eggs
418	Carved ivory dagger, hunter's knife, and 4 Persian papier mâché articles

419 Two albums of drawings, paintings and verse
420 Two brass ash-trays, 2 ditto match-holders, and pair of brass fire-dogs
421 Four soapstone ornaments, race glass, and a plaque plated on copper
422 An oil painting—Sea piece with Shipping
423 R. Barnes, signed—"Grandfather's Pet," a very fine oil painting
424 W. Coleman, 1874—water-colour drawing, "Mountainous Lake Scene"
425 T. C. Dibdin, 1842—a ditto, "Old Cottages," with figures, etc.
426 H. French, 1891—handsome water-colour drawing, "A Sprig of Mistletoe"
427 Ivory miniature of a lady
428 A ditto
429 Two glass decanters
430 A lady's leather dressing case with silver fittings
431 A handsome canteen of cutlery, 164 pieces, in mahogany case
432 A lady's leather dressing case with silver fittings
433 Set 3 full-size ivory billiard balls
434 Superior cinematograph arc lamp
435 Leather portmanteau with canvas cover
436 Gentleman's overcoat
437 Lady's coat and petticoat
438 Six spoons, 6 forks, and tea tray
439 A 12-in. His Master's Voice double-sided record, and 8 other double-sided records
440 Six knives, 6 forks, and 6 spoons
441 Three plated boxes
442 Two walking sticks, 4 umbrellas, carrying case, and leather bag (A.F.)

PICTURES, &c.

443 Two portfolios quantity of prints and water-colours
444 Two paintings—"Evening"
445 One ditto, Italian School—A figure subject
446 Ditto—"Holy Family," in a landscape, Flemish School
447 Ditto—Battle Scene, Dutch School
448 Eight oil paintings, various

449 Set of 4 antique glass pictures, "The Four Evangelists"
450 Set of 4 ditto, "The Sacraments," etc.
451 Italian School—oil painting, figure subject
452 Cuyp—Landscape, with horsemen and cattle
453 S. Harrison—oil painting, "The Old Watermill"
454 Jock Wilson—"Vessels off the Coast"
455 Beautifully finished ivory miniature of a lady, in oval gold-plated frame
456 Frith (after)—"Scene from Ivanhoe"
457 Louis Bernhardts—Boy with Calf; and a Dutch Skating scene

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459 Remington No. 10 typewriter, model, brief size, all improvements to date, practically new
460 Two copper and brass electric table lamps, with plugs and flex
461 Visible writing typewriter, with two colours, backspacer and decimal tabulator
462 Two incandescent burners for lamps, 12 boiler gauge tubes and 2 steam gauges
463 Smith Premier No. 10 visible typewriter, double foolscap size, writes 2 colours and fitted backspacer, 10-stop decimal tabulator, and 4-stop column selector
464 Curious antique surveying instrument
465 Old English sporting blunderbus with brass mounts and carved stock

POSTAGE STAMPS, &c.

466 A collection of stamps and duplicates
466A Ditto, ditto
467 Blue stock book containing many hundreds of stamps, including mint Colonial war stamps, and other good Colonial issues
468 The World Postage Stamp album, containing about 2,500 stamps (some old issues)
469 A collection of stamps
470 Ditto in Lincoln album
470A Collection containing over 3,000 stamps, many old Ceylon, St. Helena, Nova Scotia, etc., fine lot

PHOTOGRAPHIC APPARATUS, &c.

471 A ½-plate Field camera with fine achromatic lens, and a double slide
472 Hunsicker and Alexis 8x prism binoculars, eyepiece focusing, in leather case, very fine
473 Fine pair Goerz Trieder theatre prism binoculars, rack focusing and eyepiece adjustment, in leather case
474 A ¼-plate Lancaster instantograph, good lens, 2 slides
475 A ¼-plate roll film Seneca camera, fine lens, speeded shutter
476 Ross 6x prism binoculars, eyepiece focusing, fine
477 No. 1 Ensignette vest pocket camera
478 Excellent pair double telescopes, in leather case, very long range
479 No. 4 Panoram Kodak
480 Jay Nay Quickset tripod
481 A 15 by 12 enlarging easel, and 2 squeegees
482 Vest pocket Kodak, special model, Cooke anastigmat lens, F/6·3, speeded shutter, in case, as new
483 No. 4 folding Kodak, 5 by 4, late model, fine rapid rectilinear lens, speeded shutter, leather case, fine
484 No. 2 box Brownie, as new
485 No. 2 folding Brownie, 3¼ by 2¼
486 No. 1 folding pocket Kodak, 3¼ by 2¼, in excellent condition
487 Fine pair field glasses, in leather case, as new
488 Kodak daylight developing tank, for 7 by 5 and ½-plate, with adapter for filling
489 *Bausch & Lomb binocular microscope for dissection, very latest and up-to-date model, 2 pairs binocular objectives, 48 mm. and 32 mm., glass and metal stages, in case*
490 Fine pair of powerful field glasses, in leather case
491 Newman & Guardia ¼-plate folding Nydia camera, fine Beck rapid rectilinear lens, complete in leather case
492 A 3½ by 2½ Mascot magazine camera for 6 plates

493 Klito $\frac{1}{4}$-plate magazine camera (horizontal focusing model), Cooke F/6·5 anastigmat lens, fully speeded unicum shutter, in lined leather case
494 Pair real Canadian snowshoes
495 Magnificent pair of 8x French prism binoculars, very brilliant, eyepiece focusing
496 Sanderson 5 by 4 regular model, triple extension hand and stand camera, Goerz Dagor lens, F/6·8, compound shutter, 3 mahogany double dark slides, and leather case
497 No. 1 Brownie Kodak and finder
498 Premoette 1A Junior for film packs
499 No. 1A folding pocket Kodak, closed front, fixed focus model, $4\frac{1}{4}$ by $2\frac{1}{2}$
500 No. 3 folding Kodak, $\frac{1}{4}$-plate, for roll films, fine condition
501 Six 12 exposure No. 3 film pack Kodak spools, guaranteed perfect
502 Ditto
503 Seventy photographic lantern slides of Morocco
504 Praestantia projection and lecture lantern by Riley Bros., with 7-in. lens in focusing jacket, draw tube oil lamp, slide carrier, and metal case, very fine quality
505 A $\frac{1}{2}$-plate field camera (Lizars' "Challenge"), rapid rectilinear lens, roller blind shutter, 3 bookform slides, canvas case, and 3-fold tripod
506 Fine projection lantern, complete with paraffin lamp in case
507 Fine all-metal $\frac{1}{4}$-plate enlarger with $5\frac{1}{2}$-in. condenser lens in rack focusing mount, and with powerful oil lamp
508 Telescopic brass tripod
509 Twenty-four coloured slides—Engines, etc.
510 A pair of 7x prism binoculars, excellent condition, rack focusing
511 Fine pair of 5-magnification field glasses in leather case
512 Thirty-six Argentine photographic lantern slides
513 Large velvet focusing cloth, 3 printing frames, dish, 9 by 12cm. film packs and quantity of printing paper

514 Egyptian subjects—British Museum photographic lantern slides
515 Three moving coloured lantern slides
516 Leitz prism binoculars, eyepiece focusing, bending bar ; in first-class condition
517 A 2A folding Brownie, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter, canvas case
518 Kodak daylight developing tank for $\frac{1}{2}$-plates with top for filling ; cost 42s.
519 No. 2 bullet Kodak for $3\frac{1}{4}$sq. pictures ; fine for making lantern slides
520 No. 4 bull's-eye Kodak, 5 by 4 boxform fixed focus for roll films ; fine lens
521 No. 3 boxform Brownie, $\frac{1}{4}$-plate, as new
522 Premo folding camera, 5 by 4, hand or stand, fine rapid rectilinear lens, unicum fully-speeded shutter, 3 double slides and leather case
523 Goerz folding Tenax, 9 by 12cm., or easily used with $\frac{1}{4}$-plate carriers, double extension rack focusing, Goerz Dagor lens F/6·8, compound shutter, film pack adapter ; magnificent outfit
524 Very powerful long-range telescope
525 Ensign folding roll film camera, $\frac{1}{4}$-plate, with Ensign anastigmat lens, F/7·7 ; Ensign sector shutter, all speeds to 1/100th sec. ; adaptable for plates
526 Goerz folding Tenax, $\frac{1}{4}$-plate, latest Manufoc model, double extension, rack focusing, Goerz Dagor lens F/6·8, compound shutter, film pack adapter and leather case
527 Kershaw prism binoculars, 6-magnification, eyepiece focusing, in leather case ; finest English make
528 Vest pocket Kodak, Ross homocentric lens F/6·3, speeded shutter ; leather case
529 No. 3 folding Brownie $\frac{1}{4}$-plate roll film camera, fine condition
530 Pair of fine gilt and mother-of-pearl opera glasses
531 Fine pair Ross prism binoculars, 6x, in strong leather case

532 Student's microscope, fine quality and very compact, $\frac{1}{4}$in. and $\frac{1}{2}$in. objectives, bull's-eye condenser, live box specimens ; all in mahogany case
533 Five watch pocket Klimax slides
534 Fine pair of Zeiss prism binoculars, 8x, in fine condition
535 Very powerful 4-draw telescope by Broadhurst Clarkson, particularly suitable for marine work
536 Three leather cases for 1A Kodaks
537 Strong wooden tripod for $\frac{1}{2}$-plate camera with top
538 No. 2 bull's-eye Kodak, $3\frac{1}{2}$ by $2\frac{1}{2}$
539 No. 3 folding Kodak, $\frac{1}{4}$-plate, for roll films, fine rapid rectilinear lens
540 Pair of real Canadian snowshoes
541 A $\frac{1}{4}$-plate magazine camera
542 A $\frac{1}{4}$-plate magazine Klito, fine model, with speeded shutter and magnifiers
543 Very powerful double telescope in leather case
544 Parcel containing velvet focusing cloth, 2 Goerz 9 by 12cm. in film packs, squeegee, and printing frame
545 Parcel containing Kodak roll film developing tank, two 9 by 12cm. film packs, 3A spool, canvas case and focusing cloth
548 No. 1 Junior autographic Kodak, $3\frac{1}{4}$ by $2\frac{1}{4}$, very excellent
549 Fine $\frac{1}{2}$-plate stand camera, rapid rectilinear lens, 2 bookform double slides, 3-fold tripod and canvas case
550 A $\frac{1}{2}$-plate Premo folding camera with fine lens and shutter, 3 double dark slides and case
551 Davon micro telescope in leather case, fine condition, very effective for all classes of telescopic work at short or long distances ; cost £11 11s.
552 No. 3 box Brownie $\frac{1}{4}$-plate for roll films, fixed focus, very effective
553 Fine pair of 7-magnification prism binoculars, beautiful definition
554 Very powerful pair of field glasses, leather covered, in case

555 Fine pair of gilt and inlaid field or opera glasses, gold mounted in leather case
556 A 3A folding Brownie, post-card size, fine lens, speeded shutter ; canvas case
557 Fine whole-plate stand camera by Meagher, Dallmeyer lens, and 3 double bookform slides
558 A 10 by 15cm. folding plate camera, fine anastigmat lens F/6·8, fully-speeded shutter, 2 slides, film pack adapter and strong leather case with strap
559 A 2-in. Kodak daylight developing tank for all size films up to 1A
560 Fine Swift compound microscope with all movements, double nosepiece, ¼in. and ⅔in. objectives, 2 eyepieces, polariser, substage condenser, 2 bull's-eye condensers, forceps, slides and mahogany case
561 Magfo ¼-plate folding camera, Goerz Dagor lens F/6·8, compound shutter, all speeds up to 1/250, velvet-lined leather case, magazine for 12 plates ; lens and shutter alone worth £13 to-day
562 *Ernemann latest model cinematograph camera, Ernon anastigmat lens F/6·5, in focusing mount, as new ; cost nearly £30*
563 Fine pair central focusing 7x prism binoculars, eyepiece adjustment, and leather case
564 No. 4 cartridge Kodak, 5 by 4, for roll films, double extension, fine rapid rectilinear lens, and speeded shutter
565 Ensignette developing tank

ELECTRICAL APPARATUS, &c.

566 A 100-volt electric kettle in working order, and a 200-volt ditto (requires repair)
567 Six black enamelled electric bells
568 A box of electric light wire
569 A box of odd electrical accessories
570 An electric light fitting
571 An 8-way distribution board with D.P. fuses and S.P. switches on slate base, enclosed in teak case with lock and key

572 A 6-volt 60-amp. C.A.V. accumulator, charged
573 A ditto accumulator, charged
574 A 6-volt 180-amp. Lucas accumulator, charged
575 A galvanometer
576 Box electric lamps
577 Ditto electrical accessories
578 Ditto electric light wire
579 Ditto glass shades for electric light
580 Pieces of telephone cable
581 Six black enamelled electric bells
582 A 240-volt immersion heater in working order
583 A 110-volt electric hat iron in working order
584 A 200-volt electric vibrator in case with applicators
585 A 200-volt electric vibrator in case

ELECTRO-THERAPEUTICAL APPARATUS, &c.

586 Sterling high frequency generator (Serial No. 4292), complete in case; also mahogany switchboard with fittings and lamp
587 Ditto (Serial No. 3852), complete with case and switchboard
588 Ditto (Serial No. 4281) with switchboard (without case)
589 Ditto (Serial No. 4319), without switchboard or case
590 Ten glass surface applicators, etc.
591 Rhythmostat
592 Galvanic battery with galvanometer and collector
593 Wet cell battery and 2 accumulators
594 Head mirror and electric bracket apparatus
595 Sundry electrodes, ear specula, tuning forks, etc.
596 Mahogany stand for table batteries

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597 Two dozen Slazengers' tennis balls
598 Electric radiator by Dowsing
599 Ditto lot

SCIENTIFIC APPARATUS, &c.

600 A monocular microscope by Pillischer, coarse rack and fine adjustments, mechanical stage, ½in. and 1in. objectives, 2 eyepieces, analyser and polariser, stage forceps and live box

Lot 604 This diamond writing is the smallest that the [illegible] William Webb ever did it was written especially for his friend [illegible], & Webb never did any other as small his next smallest was 48 Bibles to the ounce India. The exact construction of the machine with which it was wrot is not known as some time before his death Webb destroyed it.

600A A large stand condenser, 2½in. diameter
600B A mahogany case for microscope with drawer, suit previous microscope
601A A pair of new Voigtlander prismatic binoculars, 8 by 25, in leather case
601B Ditto
601C Ditto
601D Ditto

The Fourth Portion of the Celebrated Collection of MICROSCOPES, formed by the late Sir Frank Crisp, Bt.

601 *Powell & Leland No.* 1 *microscope, latest model, binocular and monocular bodies, high and low power prisms,* mechanical revolving goniometer stage, rack adjusting rotating substage, *with fine adjustment*
602 Achromatic substage condenser, fitted with diaphragms and stops
603 *Nobert's* 30-*band ruling, signed and mounted in brass frame ; extremely rare*
604 *The unique diamond writing by the late William Webb, being the Lord's Prayer at the rate of fifty-nine entire Bibles to the square inch*
NOTE.—This is the *smallest writing* (and the only one) that Webb ever did.
605 A 2-in. objective fitted with lieberkuhn, by Powell & Leland
606 A 1-in. ditto, no lieberkuhn
607 *A* 1/16-*in. oil immersion,* graduated correction collar, by Powell & Leland
608 A 1/16-in. objective, graduated correction collar with extra front for immersion, by Powell & Leland
609 *A* 1/25-*in. objective,* with graduated correction collar, by Powell & Leland
610 A 1/50-in. objective, with graduated correction collar, by Powell & Leland
611 An erecting microscope, rack coarse adjustment, mechanical stage, by C. D. Ahrens
612 Peffers' botanical microscope, rack adjustment and levelling screws

613 A mounted prism on stand, and two stand condensers

614 An electric micro lamp on ball and socket foot, and a small stand condenser, and two other condenser fittings

615 *Fox's clockwork rotating polariscope fitted with large Nicol and selenites*; the selenite fitting has independent movements and can be made to rotate or remain stationary

616 Zeiss microspectral objective after Engelmann

617 Swift's understage fitting, with rotating Nicol polariser and selenites, standard size

618 Oberhausser's camera lucida

619 Microscope, rack coarse adjustment, mechanical stage, by Ross

620 A large heliostat

621 Portable star microscope, two eyepieces and two objectives in case, by R. & J. Beck

622 Solar microscope with numerous fittings, by Dixey

623 Mounted dissecting lens with compound power, in case

624 Student's microscope by Plossel

625 *Presentation binocular*, rack adjustment for width of eyes, rack coarse adjustment, Wale's form of inclination for rack work, rotating mechanical stage, rack adjusting substage with centering screws, fitted with a pair of capped eyepieces, and analyser, by Swift

626 Portable microscope by Powell & Leland, rack adjusting centering substage, best quality achromatic substage condenser with diaphragm and stops, monocular and binocular bodies, polariscope and rotating analyser, five eyepieces, paraboloid, live boxes, lieberkuhns, etc., in fitted mahogany lock-up case

627 Powell & Leland's oil immersion condenser

628 Heliostat rack rotating, and two substage illuminators

629 Two blood-testing sets, and another instrument

630 An object holder with seven cells, and a revolving object-holder, by Ladd

631 An expensively made oleomargeriscope, fitted with Nicol prisms and eyepieces

620 Nothing special about this formed part of Macintosh's unused microscope

629 Useful lot & very cheap the another instrument is use in dividing lines or with mathematical instruments known as Lehoks lens holder

631. During the prosecution for violation of the Butter laws of the District of Columbia
U.S.A. it was found necessary to have a simple form of instrument so that the Jury & others interested could examine the substance in dispute to this end Dr J. Taylor designed this hand form of combined polariscope & microscope

634 This is Nachet's highest class microscope & a fine example of the best class French microscopes

638 Nothing special about these

658 A pair of Fresnel's rhombs the first circularly polarizes the light & the 2nd again rotates the beam which thus emerges as an ordinary polarized ray of light.

632 Six various compressors and live boxes
633 Photo micrographic camera, in mahogany case
634 Expensively-made micrometer microscope, rack coarse adjustment, divided fine adjustment, mechanical micrometer stage, by Nachet
635 Student's microscope, rack coarse adjustment, by Plossel
636 Dissecting microscope in case by Powell, with condenser, forceps, etc.
637 Dissecting microscope in case by Ross, and a lens holder by Watson
638 Five small dissecting microscopes
639 Four hot stages, and two compressors
640 Five various stages
641 Two transverse illuminators
642 Four expensively-made stages
643 Silver side reflector on ball and socket joints, and a silver lens condenser
644 A Bunsen burner, candle-holder and three stand condenser fittings
645 Two dozen scarce axis-cut crystals
646 Two dozen ditto, topaz, apatite, etc.
647 Two dozen ditto, diopside, celestine and azurite
648 Two dozen ditto, various
649 Ditto, ditto
650 Two dozen quartz, axinite, glauberite
651 Thirty-eight fine micas and selenite plates
652 Two dozen emerald and topaz, etc.
653 Two dozen apophyllite, euklase, etc.
654 Three dozen various
655 One dozen fine selenite designs
656 Ten fine quartz plates, and five fine selenite designs
657 Nine fine specimens of chilled glass, and four other specimens
658 A pair of Fresnel's prisms mounted so as to show the circular polarisation of light, and a heater for glass in polariscope
659 Small polariscope with Nicol prism, and tourmalin analyser in case, with specimens by Ahrens
660 Ten various prisms

661 A case of twenty-one scarce absorption tubes in case, a plate of various coloured gelatines and other tubes
662 A dissecting microscope with two powers, in case, by Ross ; and mounted forceps, in case, by West
663 Johnson's patent surveying and measuring instrument for attachment to umbrella or walking stick
664 A number of odd powers for the microscope
665 A fine mounted selenite object, a polarising bundle (cracked), and a micro hand-viewer
666 A binocular microscope, the Ross Zentmayer, rotating mechanical stage, rotating centering substage (A.F.)
667 Abbé's telescopic microscope objective by Zeiss
668 Nachet's double-bodied microscope
669 Microscope with mechanical stage by Powell
670 Student's microscope, mechanical stage fitted with rotating polariscope
671 Microscope by Jung, no eyepiece, and another with eyepiece
672 An erecting dissecting microscope, no eyepiece
673 Hematospectroscope de Henocque by Lutz, Paris
674 Student's microscope with curious mechanical movement to the stage, by West
675 Petrological microscope with goniometer eyepiece, rotating goniometer stage, by Voigt & Co., of Gottingen
676 Air pump microscope
677 James' exhibition microscope
678 Student's microscope with centering stage, by Schiek
679 Dissecting lens with two powers, on stand, and a hot chamber
680 Two small stand condensers, and a diaphragm
681 Expensively-made binocular magnifier with rack adjustments, on stand
682 Binocular microscope, mechanical rotating stage, by R. & J. Beck
683 Microscope by Jaubert
684 Bacteriological microscope fitted with substage and swing-out Abbé condenser

661. These are useful to show the various kinds of absorption bands in various minerals

662 Very small but very interesting dissecting stands very finely made (& very cheap)

663 This is a very early example of Pelletan's drum microscope & very uncommon.

678 Nothing very special but not a common form

676 A rather unusual form of stage (& very cheap instrument the polariscope is worth 15/. to 20/. alone)

690 Uncommon form noteworthy for the large stage & curious base

692 The very curious long lever movements to the stage is unique & think Crisp thought a lot of this microscope

674 This is Dr. v Weinzierl's simple microscope for the examination of seeds the large lens has a magnifying power of 2½ times the other is more powerful and also achromatic.

684 This is a rare form of photographic microscope invented by Dr. H. Viallanes its special feature is large field & it is claimed that by a system of successive exposure a clear definition is obtained throughout such field

681 This is really a stereoscope
in a very uncommon form

682 A very nice example of R.
J. Beck's earlier International
microscope fills a gap in your
collection (& very cheap)

683 A very fine example of this
type of extraordinary microscope by
Léon Jaubert of Paris made about
1866. & was very scarce he took
out a patent for such forms &
also for a large number of so called
improvements in lenses &c it is
a standing example of misdirected
ingenuity & its multiplicity of movements
almost defies description. Its most
noticeable feature is that the body it can be
rotated right round the centre.

683 This is a very interesting micrometer microscope with several novel features it was made to the order of a Russian Nobleman who never returned to claim it so it is unique

684 This microscope is the invention of R. Martens of Berlin who patented it. In a slightly different form it was made for the Author by Zeiss it was constructed for the examination of large specimens of rocks &c.

701. This is a Zeiss microscope by Ross * the special feature is the focus adjustment designed by Dr. Hugo Schroeder this was a very effective form of focus adjustment but the difficulty of manufacture was so great that Zeiss never made & Mess. Ross soon after had to adopt a more simple form.

* Shown in Inventions Exhibition 1885.

685 Student's microscope, rack coarse adjustment, adjustable substage rotating stage
686 Prasmowski's micrometer microscope, with rack movements
687 Martin's ball-jointed microscope for the examination of minerals
688 Bacteriological microscope, rack coarse adjustment, adjustable substage by Bullock
689 Microscope by Belthle & Co., and another by Chevalier
690 Binocular microscope by Ahrens (A.F.)
691 Microscope by Chevalier, and another
692 A microscope and an aquarium ditto, on stand
693 Two student's microscopes, by Merz
694 A binocular microscope, by Ahrens
695 Student's microscope, and another
696 Binocular microscope, by Nachet
697 Another binocular, by Nachet
698 Two double bodies (Harting's design) for the microscope, on stand, and a right-angled prism
699 Student's microscope, by Chevalier
700 Warrington's portable microscope
701 Expensively-made microscope by Ross with Schroder's fine adjustment, rack coarse adjustment, patent side fine adjustment, rotating mechanical stage and graduated rack adjusting substage with centering screws
702 Microscope by Chevalier
703 *Best quality petrological microscope, rack adjustment, micrometer fine adjustment,* revolving goniometer stage, Nicol prism polariscope, and a goniometer analysing eyepiece fitted special square-cut Nicol
704 *A unique and remarkable museum microscope, holding* 500 *separate objects : it consists of a brass drum* 20*in. long, into which is fitted six cylinders, each of which can be rotated independently ; specially made by Messrs. Beck for the International Exhibition of* 1872 *; originally cost* £300
705 A unique microscope ("The Jumbo"), being the largest and heaviest microscope ever made. This remarkable instrument is adapted for photography, and was made by Lowdon,

optician, Edinburgh. Also the midget, being the smallest working microscope ever made, with rack coarse adjustment, fine adjustment and mechanical stage; a few screws missing (A.F.)

706 Beautifully-made miniature microscope with fittings, under glass shade; and another miniature microscope

707 A quadrocular microscope, rack adjusting substage fitted with Abbé condenser

708 Reading microscope with rack coarse adjustment, fitted with eyepiece, and a bull's-eye stand condenser

709 Six fine microphotographs, including Sir David Brewster, and five others

710 The Royston-Piggott divided body tube, a body tube with rack adjustment, an erector, a binocular body with two eyepieces, and three revolving stages fitted with objects

711 Eight various camera lucidas

712 Five various stages

713 A frog plate and six compressors

714 Thin cover glass measurer, and a goniometer stage

715 Robert's pantographic eyepiece, and a micrometer eyepiece by Zeiss

716 Four electric stages and five slides, and a bichromate battery

717 Thirty-two micrographic slides in two cases, three ditto framed, and a fine transparent slide of pond life by Richter

718 Ten various eyepieces

719 Ten ditto

720 Ten ditto

721 Expensively-made micrometer stage, and a ditto by Klonne & Muller

722 Centering goniometer stage by Zeiss, and another stage

723 Mechanical stage with micrometer movements, by Reichert

724 Inostranzeff's comparator

725 Ahrens' camera lucida

726 Three expensively-made hot stages fitted with thermometers

404 This is a unique instrument no other having been made it was made for the 1862 (not 1872 as stated in this Catalogue) & very favourably reported on by the Jury.

405 This is also a unique instrument it was made to the order of an ex Indian Officer. The Medical Microscope that accompanies it is also unique it is a perfect working Microscope with each coarse & fine adjustment Mechanical Stage & every part fitted to work the same as the larger Cross model after which it is made. (When possible this together with Jumbo should be shown in 1 Case)

406 Two interesting models. the one not under the glass shade is the best as it is an actual working Microscope, the other only being a model.

938 This is a very fine & beautifully made Miniature Microscope & every part works it will be noted that it has a first class mechanical stage exactly like its parent model the original large stand first made by Andrew Ross about 1841.

727 Four hot stages, electric stage platinum points, and a rotating stage with twelve objects, by R. & J. Beck
728 Two Stephenson's safety stage and three others
729 A micrometer, 1/500in., ditto by Hartnack, Webbs' finder and another finder
730 Micrometer stage by J. W. Moller, a stage micrometer brass-mounted mica stage, and three brilliant selenites
731 Eleven various eyepieces
732 Ten ditto
733 Hofmann's camera lucida
734 Set of stops, high power spot lens, light modifier and five eyepieces
735 Two dissecting microscopes
736 Portable microscope by Nachet, and two others
737 Two dissecting microscopes
738 Beautifully-made miniature microscope fitted with mechanical stage
739 Two hot stages and five other fittings
740 Four vial holders, and five other fittings
741 Two thermometers, large zoophyte trough and sundries
742 Two lieberkuhns, and seven other microscope fittings
743 Twelve various under-stage fittings
744 Two finders, two erectors, and five other fittings
745 Eleven various nose-piece fittings
746 Dumaige's camera lucida and three others
747 Four camera lucidas
748 Prism stage illuminator, and crystal cap eyepiece fitted with a revolving tourmalin
749 Calliper on stand, and microscope fitted with eyepiece
750 A number of objective mountings, and lens tools, by Pritchard
751 A telescope and a small microscope, by Dollond
752 Two dissecting microscopes
753 Microscope by Fasoldt, rack coarse adjustment
754 Sector microscope by Grubb, rotating stage
755 Bacteriological microscope with patent fine adjustment, by Swift

756 Microscope, rack coarse adjustment, substage with centering screws, by Tolles

757 *Seven binocular bodies fitted with various systems of prisms : Barnard's Calcite, Hamilton Smith's System, Riddle's First Binocular, Ahrens' Spa Binocular, Ahrens' Improved Wenham, Ahrens' Erecting Monocular and Binocular, etc., mounted upon brass bases for exhibition purposes, and stand taking all the bodies for use*

758 Bacteriological microscope by Chevalier, rack coarse adjustment, and adjusting substage

759 Large microscope, rack adjustment, rude adjusting substage

760 A Challenge binocular microscope, rack coarse adjustment, adjustment for width of eyes, rotating stage, fitted with a pair of "A" eyepieces

761 Stephen's erecting binocular by Browning (body only), mounted on stand for exhibition

762 An erecting binocular (body only)

763 James' exhibition microscope

764 Petrological microscope, rack coarse adjustment, fitted with selenites and eyepiece; no polariscope or analyser

765 Student's microscope with bent body tubes

766 A $\frac{2}{3}$-in. objective by Ross

767 A $\frac{1}{12}$-in. objective by Ross, graduated correction collar with extra front for immersion

768 A $\frac{1}{6}$-in. *immersion objective by Tolles; this is the celebrated $\frac{1}{6}$in., around which part of the aperture question ranged*

769 A $\frac{1}{4}$-in. Tolles' objective with cone front

770 Ditto, fitted with prism for illuminator

771 A 4-in. amplifier by Gunlack, and a $\frac{1}{6}$-in. by Bausch & Lomb

772 *An expensively-made goniometer microscope, graduated fine adjustment, divided on silver, and micrometer reading by vernier, and divided on silver*

773 Microscope by Ross on ball and socket joint

774 Ditto, 1837 model

775 A kaleidoscope on stand by Horn & Thornthwaite, London

745 These & binocular bodies were all made especially for Sir Frank Crisp by Ahrens the celebrated prism maker (he made all the large prisms for Spottiswood & other well known scientists) & in this set are compressed all the leading types of Binocular microscopes several of them are the only ones made (except the originals) Prof Barnards Celiste, Hamilton Smiths form & Riddels pat. binocular are amongst the rarest.

762 Interesting & quite useable if it was mounted on a stand with mirror

745 This is a very rare form of polarizing kaleidoscope.

746 This is the original medal it was submitted to Mrs Ella Duckett (sic) there was a letter with it from her, saying that it was a very good likeness (Crisp tore it up & threw it in the fire place I asked him for it & he gave it to me & I stuck it together & still have it) You will notice that the name is spelled wrong.

188 This is a very interesting Microscope 1st Microscopes by the Maker are not common 2nd Its large size far larger than I have ever seen. It is the original Microscope which used to be shown by a Man who stood on the Pont Neuf Paris about 80 years ago A Mons Rambler on the behalf of Crich made effort to trace it forward by asking from the men who had taken it in the street for hire he found it form Owner in prison Mons Rambler's Father in law was a Magistrate & he got an order to interview the prisoner who stated that it is in pawn at one of the public pawn shops of Paris he the prisoner was given 15f. & he signed order for it release. (Crich thought it lost of this.)

190 This is probably made by Chevalier it is not a common form in this country & we not clear that the price was paid for it

191 A rather scarce form of Microscope by the original Maker.

778 A nice example of Plossl's inverted chemical microscope the only one by the maker in the collection.

779 A fine & expensive model of Nachet's photographic microscope

781 This is Jung's embrographe it was designed by Prof Koch it gives various magnifications from about 8 to 30 diameters with the objective & eyepiece supplied. (it is one of the cheapest things you get in this sale)

782 This very rare form of binocular was made by Sam Holmes about 1870 it cost Crisp £15 it was sold at Steven about 1885 Crisp got just to take for it & the party who bought it made Crisp pay £15 for it

786 This has a very interesting & rare form of fine adjustment

(Please turn back for other lots over leaf.)

776 Quecket bronze medal, kaleidoscope and small lantern
777 Student's microscope by Nachet, with complete rotation on the foot
778 Inverted microscope by Plossel
779 Expensively-made inverted microscope, with mechanical stage, rack coarse adjustment, by Nachet
780 Expensively-made photographic microscope with two bodies, by Nachet
781 A microscope fitted with camera lucida
782 A binocular microscope (divided), by Holmes
783 A binocular microscope by Holmes (divided)
784 A binocular microscope by Holmes
785 Goltzch binocular microscope
786 Student's microscope by Gray
787 Expensively-made microscope by Jaubert, no eyepieces
788 Large drum microscope by Sectreian
789 Antique student's microscope
790 French solar microscope
791 Antique chest microscope by Nairne & Blunt
792 An 18-carat gold-mounted rhinoceros horn pointer
793 Micrometer microscope in case, by Dollond
794 Student's microscope by Oberhauser
795 Two microscopes by Carey
796 Dissecting microscope by West, and another
797 Two dissecting microscopes
798 Portable microscope in case, and a hand magnifier in case
799 Antique projection microscope complete with reflector and slides, in case
800 Dissecting microscope by Banks, and ditto by Dixie
801 Large projection microscope by Watkins & Hill
802 Microscope lamp fitted with large bull's-eye condenser, in case
803 Lucernal microscope, and a tripod stand

LANTERNS, SLIDES, &c.

801A *Life model photo slides :* Tony Tompkins, 12 ; Nervous Man, 4 ; Dick and his Donkey, 15 ; Cabin Boy's Bible, 5 ; Catterina, 9 ; Sweep and Whitewasher, 8 (48 in all)

802A History of a Butterfly and floral subjects, 46; White City, 5; Cinderella, 9; Hymns, 6; Soldier's Dream, 2; Portraits, 2 (61 in all)

803A Rather Warm, 32; King Alfred, 9; Various Views, 24 (66 in all)

804 Box containing about 80 cinema mottoes and announcements, plain and coloured

805 Tabby and Paint Pot, 10 (and 3 coloured); Roger Plowman, 12; Tony Tompkins, 12; Pair of Stilts, 6; Mechanics, 10; Pussy's Road to Ruin, 10; Gates of Heaven, 5 (55 in all)

806 Precocious Pigs (12); Rival's Revenge (10); Cock Robin, 7; Algiers, 16; Views, 4 (50 in all)

807 *Hand-coloured photo slides:* The Fool's Pence, 14; Young Ellerly, 3; Dreadful Effects of Drink, 6; Kitten's Lessons, 4; Smiting the Rock, 3; Exchange of Pigs, 3; Angel's Christmas, 10; Poor Mike, 6 (49 in all)

808 Narrative of a Narrow Escape, 31; Enchanted Flirt, 11; Ballad Singer, 6 (48 in all)

809 Lantern Puns, 22; Sweep and Whitewasher, 7; Froggy's Little Brother, 10; Abstainer and Drinker, 9; Floral, 5 (46 in all)

810 Somebody's Mother, 5; Temperance Entertainment, 23; Vulgar Little Boy, 10; Californian Nugget, 4; Paddy, 2 (44 in all)

811 The Lost Purse, 21; The Chimes, 19; Mother's Last Word, 10 (50 in all)

812 Sing a Song of Saturday, 9; Hope on, 16; Evolution, 5; Angel of the Tenement, 6; Photographer's Perplexities, 6

813 Free Trade or Tariff Reform, 55

MISCELLANIES.

814 Two model steam engines

815 Large mechanical train

816 Three various steam engines

817 Two cinematographs

818 Three ditto various

819 A $\frac{1}{4}$-plate folding camera with rapid rectilinear lenses, working at F/8, iris diaphragm, various speeds, 2 slides and release

820 A $3\frac{1}{2}$ by $2\frac{1}{2}$ ditto, ditto

821 An electric railway complete, in perfect order
822 100 guaranteed metal filament bulbs
823 Eight volt and amp. meters (Dead Beat)
824 Three various motors
825 Twenty-four Sheffield safety razors with Gillette pattern blades
826 100 various full-size coloured lantern slides
827 Twelve $\frac{1}{4}$-plate metal dark slides for Klito camera
828 Twelve $3\frac{1}{2}$ by $2\frac{1}{2}$ ditto
829 A $\frac{1}{4}$-plate Ernemann camera with one slide
830 Four strong expensive wood lockers with patent fastenings
831 Four various steam engines
832 Two larger ditto
833 An aluminium stereoscope, and 2 dozen slides for same
834 A set model rails

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, JANUARY 25th :—

Curiosities, China, Arms and Armour, etc.

FRIDAY, JANUARY 28th :—

Lathes and Tools, by Holtzapffel.

Photographic Apparatus and Miscellanies.

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SCIENTIFIC, ELECTRICAL AND PHOTOGRAPHIC APPARATUS AND MISCELLANIES.

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Original Catalogue Nov. 12th 1920

Catalogued

J

Phone: Gerrard 1824. Sale No. 13,221.

Sale to commence at **12.30** *o'clock.*

FRIDAY, NOVEMBER 12th, 1920.

WA/HMM/Cm/Sal
121/333/4

A CATALOGUE OF

Scientific and Photographic Apparatus

INCLUDING

The Second Portion of the Celebrated Collection of

MICROSCOPES and ACCESSORIES,

formed by the late Sir Frank Crisp, Bart.;

Valuable Cameras and Lenses,

by first-rate makers;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On FRIDAY, NOVEMBER 12th, 1920,

At **12.30** *o'clock.*

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

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SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

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Lot	Amount £	s.	d.	Lot	Amount £
B/7d	103	19	6		
362	6	0	0		
368	1	6	0		
371	1	10	0		
372	3	0	0		
374	1	12	6		
374	2	0	0		
382	1	4	0		
384	1	10	0		
387	1	10	0		
389	0	18	0		
	£ 124	10	6		
Com. 5%	6	4	6		
	£ 130	14	6		

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BUYER Lord

Date 12

AUCTIONEERS Strous

Lot	Amount £	s.	d.
247	3	0	0
248	4	0	0
266	3	0	0
268	7	0	0
270	3	15	0
272	2	10	0
273	—	18	—
278	2	0	0
284	6	6	0
288	1	10	6
296	3	0	0
298	1	17	6
301	1	10	0
304	1	0	0
306	1	10	0
307	—	12	—
C/70	£ 48	8	6

Lot	Am £
B/70	£ 48
308	3
309	1
310	2
311	3
321	5
328	15
329	1
330	3
334	2
337	3
340	4
341	1
345	3
346	3
354	2
356	1
361	1
C/70	£ 103

A CATALOGUE

Friday, November 12th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot	
1	Handsome papier-mâché writing box, inlaid with pearl
2	Pair of handsome bronze vases with figures on marble stands, with liners
3	*An* 18-*carat gold chronometer watch*, by Sharp, Dublin, in case; in going order and regulated
4	Mark V. aircraft watch, highest grade, detached lever, 15-jewel movement, Breguet spring, non-magnetic compensated balance, 3 positions synchronised, with dashboard holder or for pocket; guaranteed perfect
5	Ditto, less holder
6	An 8-day fully luminous Mark IV. A., ditto, same specification
7	An 8-day non-luminous ditto
8	Coney seal coat, as new
9	Ditto

10	Coney seal coat with skunk opossum collar
11	Six gramophone motors, complete with turntable and winding key
14	Hornless gramophone with lid and doors, in perfect condition
15	Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
16	Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
17	Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
18	Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
19	Microscope, rack and fine adjustment, 2 powers, in case
20	Plated tray and 2 ditto boxes
21	Two lady's umbrellas
22	Six spoons, 6 forks and tea tray
23	Pair of photo frames
24	Six knives, 6 forks and 6 spoons
25	Set of 5 aluminium saucepans with lids
26	Electric battery with fitting in mahogany case, perfect order and condition
27	Binocular microscope in mahogany case, with eyepieces, objectives, etc.
28	No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
29	Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
30	No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
31	Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
32	Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

33 A large collection of stamps in improved album
34 Two albums and quantity of stamps
35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc. ; a useful lot
36 Engraving by Bartolozzi after Hamilton—" Edmund Keene as Richard III.," framed and glazed
37 Oil painting in gilt frame—" Shipping "
38 Three large water-colour drawings, framed
39 Five small ditto
40 Oil painting in gilt frame and a pen and ink drawing
41 Two coloured engravings in black and gilt frames, a sepia engraving—" Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
42 Two engravings—Horses, by Stubbs, Anvil and Godolphin ; old print, coloured—" Race over the Beacon Course, Newmarket, 1770 "
43 Another—" Bay Malton beating Gimcrack "
44 A coloured oval in sepia—Duchess of Devonshire, 1782
45 Coloured engraving—" Attacking the Fortress," by Lucas
46 Circular coloured engraving—" The Harvester," by H. Mole
47 Coloured engraving—" The Farmer's Boy "
48 Ditto—" The Infant Bacchus," by R. Westall, R.A., 1804
49 Oil painting—Landscape with Herdsman and Cattle
50 Another—" Birds "
51 Another—Portrait of a Gentleman
52 Another of an Artist
53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

55 Thornton-Pickard ½-plate camera, slides, stand and case

56 A 10 by 8 copying camera, 2 slides

57 Billcliffe midget camera, lens and stand

58 Billcliffe vertical enlarger with condenser

59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case

60 Twenty-four printing frames, ½-plate

61 Six lenses

62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack

63 Goerz-Anschutz 5 by 4 focal plane folding camera; the favourite pressman's model fitted with Goerz Dagor 6·8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes; in leather case

64 A ¼-plate folding camera with Rodenstock aplanat 7·7 lens, film pack adapter, 3 metal plate-holders; canvas case

65 A 5 by 4 Ray camera, Beck Isostigmar lens F/5·8, six slides and leather case

66 No. 3 folding pocket Kodak, ¼-plate, for roll films, rapid rectilinear lens, T.B. and I. shutter; good condition

67 Ensign ¼-plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet

68 No. 1A folding pocket Kodak, closed front model, black bellows

69 Pair powerful field-glasses, in case

70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses

71 *Watson's 5 by 4 Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*

72 Fine 10-lens leather-covered powerful field-glasses, in tan case

73 Fine 3-draw leather-covered telescope with case

74 Small microscope in case

75 Fine student's microscope with ¼-in. and ½-in. objectives, 2 eyepieces, bull's-eye condenser; in mahogany case, splendid order

76 A pair of powerful field-glasses

77 Strong 4-fold wooden tripod with top

78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model

79 No. 3 Cartridge Kodak ¼-plate for roll films or plates, double extension, Goerz anastigmat lens F/6·8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model

80 No. 3 folding Brownie ¼-plate for roll films; as new

81 A ¼-plate magazine camera

82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter; leather case

83 Vest pocket Kodak, fine 6·9 anastigmat lens; just cost £6

84 Twelve No. 1 Brownie spools; date just expired but quite perfect

85 Small powerful telescope

86 No. 1 box Brownie with view finder

87 No. 1 Ensignette in case, as new

88 Vest pocket Kodak with fine F/6·9 anastigmat lens in case

89 *Postcard and* 10 *by* 15*cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F*/4·5, 6-*in. focus, compound shutter,* 2 *slides and film pack adapter*

90 Shew folding Eclipse ¼-plate camera, fine rapid rectilinear lens, 3 double dark slides

91 Fine compound microscope with 2 objectives, in mahogany case

92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5·7, speeded shutter, leather case

93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6·3, speeded shutter

94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6·3, leather case

95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6·3, focal plane shutter

96 A $\frac{1}{4}$-plate folding camera, double extension Goerz Dagor lens F/6·8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter

97 No. 3 folding Kodak $\frac{1}{4}$-plate, very late model; fine condition

98 A $\frac{1}{4}$-plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$-plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case

99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case; make a fine studio outfit

100 Carbine $\frac{1}{4}$-plate roll film camera, will also take plates; Beck rapid rectilinear lens, speeded shutter

101 Goerz Dagor anastigmat lens, F/6·8, 6-in. focus in automat fully speeded shutter

102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case

103 Fine lens for $\frac{1}{2}$-plate enlarger

104 Hume's $\frac{1}{4}$-plate Cantilever enlarger for artificial light, with illuminant

105 A No. 3 folding pocket Kodak for $\frac{1}{4}$-plate roll films

106 Holborn $\frac{1}{4}$-plate magazine camera, fine F/7·7 lens, for 12 plates

107 A No. 2 folding Kodak for $3\frac{1}{2}$-in. square pictures (lantern slide size), in leather case

108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$-in. objectives and 2 eyepieces, in mahogany case

109 A Negretti & Zambra's $\frac{1}{12}$in. oil immersion microscope objective

110 *A Zeiss Minimum Palmos* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$-plate with carriers, Zeiss Tessar lens, F/4·5, focal plane shutter, 3 double dark slides, and folding pack adapter

111 A No. 2 Brownie box-form camera and canvas case

112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter

113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6·8, speeded shutter

114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front

115 A No. 1 box Brownie view finder and a canvas case

116 A vest pocket Kodak in leather case

117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter

118 Pair of powerful field-glasses in case

119 Pair of Lemaire binoculars in leather case

120 A No. 1A folding pocket Kodak, late closed front model, black bellows

121 A magazine camera, $\frac{1}{4}$-plate, fine lens, magnifiers, etc.

122 A ditto

123 Benetfink's lightning $\frac{1}{4}$-plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new

124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case

125 A 3A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case

126 Toy microscope in case

127 A Beck compound microscope, $\frac{1}{4}$-in. and 1-in. objectives, eyepiece, and case

128 Two boxes microscopic slides, about 150 assorted subjects
129 Two small single lenses
130 A Ross Goerz double anastigmat lens, F/6·8, in fully speeded unicum shutter, 5in. focus
131 400 P.O.P. postcards
132 400 ditto
133 400 ditto
134 400 ditto
135 400 ditto
136 400 ditto
137 Five ¼-plate Goerz film packs, dated Feb. 1921, cost 22/6
138 Six 9 by 12cm. Goerz film packs, cost 34/–
139 Six ditto
140 Six ditto
141 Six ditto
142 Stereo Weno stereoscopic roll film camera, full size, fine rapid rectilinear lens, leather case ; practically as new
143 Small microscope in case, old fashioned but very effective
144 Photo Jumelle 3½ by 2½ Stereoscopic Co.'s magazine camera, fitted with Krauss Zeiss Tessar lenses, F/6·3, in tan leather case
145 Watson's 6x prism binoculars, eyepieces separate focusing, bending bar, leather case
146 Fine pair Hunsicker & Alexis prism binoculars, 8 magnification eyepiece focusing, tan leather case
147 Negretti & Zambra's 8x stereo prism binoculars, central focusing, eyepiece adjustment, leather case ; fine
148 A Richard's glyphoscope stereoscopic camera, complete with 12 slides and leather case
149 A Thornton-Pickard Ideal ¼-plate folding camera, fine lens, 2 slides, and case
150 Nine Thornton-Pickard ¼-plate single slides
151 A ¼-plate magazine camera for plates

152 A metal telescopic tripod

153 A $\frac{1}{4}$-plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens

154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new

155 Polished walnut stereoscope on stand, with coloured and other views

156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder

157 Fine $\frac{1}{2}$-plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod

158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new

159 *Ensign Popular Pressman Reflex $\frac{1}{4}$-plate, double extension, Ross Xpress lens, F/4·5, focal plane shutter, and 6 single slides*

160 Holborn Ilex magazine camera, $\frac{1}{4}$-plate focusing model, Aldis Plano anastigmat lens, F/6·8, speeded shutter, brilliant finders, in splendid condition

160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking interocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$in., and $\frac{1}{5}$in., stage forceps, live box and stage bull's-eye condenser, in case

162 Beck $\frac{1}{4}$in. objective for use with binocular

163 A ditto $\frac{1}{8}$in. ditto

164 A ditto $\frac{1}{10}$in. (immersion) ditto

165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$in., $\frac{1}{6}$in., and $\frac{1}{12}$in. oil immersion

166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case

167 Swift portable binocular, 2 eyepieces, spot lens and polariscope

168 Swift spot lens with centering adjustment

169 Watson projection eyepiece

170 Gundlach $\frac{1}{16}$in. immersion objective, with correction collar

171 Watson $\frac{1}{12}$in. oil immersion for metallurgical work

172 Wray $\frac{1}{4}$in. objective

173 Triple nosepieces

174 Micro lamp in case

175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{12}$in. oil immersion

176 Blood counter, after Thoma

177 Zeiss projection eyepiece

178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case

179 Zeiss apochromatic objective, 1·5mm. oil immersion

180 Compensating eyepiece by Baker

181 Zeiss 16mm. apochromatic objective

182 A No. 12 compensating eyepiece

183 Abbé condenser with iris diaphragm

184 Zeiss 4mm. apochromatic, with correction collar

185	Zeiss condensing lens, with iris diaphragm, in gimbals
186	A 3-in. objective by Ross
187	Dollond student microscope, rack coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser on stand, complete in case
188	Dissecting microscope with rack, 3 lenses, turntable, erecting eyepiece and triple objective, complete in case
189	Micro lamp, complete in case
190	Swift student microscope, rack coarse and micrometer fine adjustment, racking and centering sub- stagewith Abbé condenser and iris, double nosepiece, 2 eyepieces, $\frac{2}{3}$in. and $\frac{1}{8}$in. objectives, sliding polariscope in body, and swing out analyser
191	Box of rock specimens in 4 trays, by Gregory
192	Blood counter in case
193	Microscopic air pump, complete with bell, on stand
194	Crouch monocular microscope, rack coarse and micrometer fine adjustment, eyepiece, 1in. and $\frac{1}{4}$in. objectives
195	A $3\frac{1}{2}$-in. telescope by Tulley, finder and steady rods, 1 day, 2 astro eyepieces, with equatorial head, in case, and tall outdoor stand
196	Equatorial head on tall outdoor stand
197	Cooke's sun-diagonal
198	Set 4 achromatic eyepieces by Browning, in case
199	Dent's meridian instrument
200	A $3\frac{1}{4}$-in. telescope by Jones, with finder, 2 astro eyepieces, 2 day ditto, on equatorial head with slow motions, on tall stand
201A	Single prism table spectroscope
202A	Recording barometer
203A	Faber 10-in. slide rule

Lots not bought

201 fetched 13.13.0 244 9.0.0
229 " 3.15.0 247 18.0.0
243 " 23.0 14 0 292 11.0.0
293 Who your bind bid? Price?

204A Case of drawing instruments and board
294. 11.10.0 205A A ditto
206A A ditto
313. 7.10.0 207A Box of railway curves
208A Biunial lantern with dissolver
316. 2.0.0 209A Two limelight jets
324. 6.10.0 210A A graphoscope (folding)
211A A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet; this is a very fine instrument
325. 8.10.0
333. 4.0.0
338. 2.15.0
342. 5.0.0
351. ? Price? 212A Steward microscope, 2 objectives, mechanical stage, in mahogany case
352. 6.10
354. 9.9 Price

The Second Portion of the Collection of MICROSCOPES and ACCESSORIES, formed by the late Sir Frank Crisp, Bt.

(10.) 201 *Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws; fitted with a pair of "A" capped eyepieces; by Watson & Sons* 10:

202 An "A" objective, by Zeiss
203 A 1-in. and $\frac{1}{2}$-in. objective, by Tulley
204 No. 10 immersion objective, by Verick
205 Two objectives in cases
206 Three various objectives
207 Objective with lieberkühn, and 4 others
208 Zengers' $\frac{1}{50}$-in. endo-immersion
209 Hasert's $\frac{1}{16}$-in. immersion, and another
210 Three objectives
211 A $\frac{1}{4}$-in. objective with correction collar, by Nobert
212 A mounted double mirror on stand, and an expensively mounted prism
213 A 4-in. double bull's-eye stand condenser

214 Two bull's-eye stand condensers
215 An adjustable microscope lamp by Baker, with metal chimney
216 Fidden's improved portable microscope lamp
217 Schafer's thermo-regulator with glass and mercury
218 Abbé test plate mounted in brass, by Zeiss, and a Maltwood finder in case
219 A goniometer stage and a tilting stage, by Watson
220 A revolving stage, another on ball and socket, revolving object holder and 2 others
221 An expensively made micro-spectroscope fitted with comparison mirrors
222 An expensively-made micrometer eyepiece, by Hartnack & Co., and another micrometer eyepiece
223 An expensively made rack revolving goniometer with crystal stage
224 Oberhausser's horizontal camera lucida
225 Sub-stage condenser fitted in rack adjusting under-stage, and a case of dark wells, both by Beck
226 A camera lucida fitted to eyepiece, 2 by Chevalier, and 2 others
227 Three nose-pieces and 2 pairs of safety rings
228 Two hot stages, 2 frog plates and a compressor
65A 229 A binocular eyepiece by Hartnack, fitted with a pair of eyepieces, and another by Tolles fitted with a pair of eyepieces
230 Ten various single nose-pieces
231 Two micrometer eyepieces, a calliper eyepiece, and an eyepiece ruled in squares
232 An expensively made comparison micrometer eyepiece by Nachet
233 An expensively mounted drawing prism
234 A binocular eyepiece by Verick, fitted with 2 eyepieces

235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions

236 Three hot stages

237 Three hot stages and an electric stage

238 An expensively made goniometer stage with divided circles

239 Five compressors

240 Five ditto

241 A blood-testing set by Zeiss, another by Verick, and another

242 Nine various eyepieces

7. 243 *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated,* rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross

244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces

245 *Stephenson's erecting binocular microscope,* rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London

246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens

9. 247 Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris 8.0.0

5. 248 Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser 4.0.0

249 An Abbé condenser by Zeiss in sub-stage fitting

250 Stephenson's illuminator and 3 understage condensers

251 Three kettle-drum condensers by Ross, and a Kingsley illuminator

252 A Nachet prism, Wenham's reflex illuminator, and 3 other prism illuminators

253 A Webster condenser, Wallach's condenser, spot lens, and 2 other condensers

254 Beck's tadpole condenser and another by Beck

255 Eight various diaphragms and under-stage fittings

256 Multiple colour spot lens, 2 mounted prisms, a mounted mirror and 2 other fittings

257 Two silver side reflectors, a paraboloid and a mounted lens

258 Two under-stage condensers, spot lens with iris diaphragm, revolving polariscope, and a centering sub-stage fitted, by Beck

259 Two large mounted prisms, a mounted mirror and 2 stage bull's-eyes

260 Draw tube fitted with erector, a goniometer eyepiece, divided circle and analysing prism

261 Set of Darker swing-out selenites and a revolving polariscope

262 An apertometer, by Zeiss

263 A polarising bundle, a polariscope and a mounted prism

264 Swift's best sub-stage condenser with revolving polariscope and centering screws

265 An expensively made patent petrological microscope by Swift, with graduated revolving polariscope and analyser, graduated fine adjustment, rack coarse adjustment and moveable selenite plate, etc.

5 266 An expensively made micrometer microscope, fitted with micrometer stage, graduated, and a Ramsden's micrometer eyepiece

267 A bacteriological microscope, rack coarse adjustment, micrometer screw fine adjustment, by Hartnack

7.-268	Bausch & Lomb's laboratory microscope; can be used either inverted or as an ordinary microscope	4. 0. 0
269	Student's microscope by Reichert	
75/-270	A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage	3. 15. 0
271	A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment	
75/-272	An expensively made theodolite microscope, with levelling screws and divided in silver	2. 10. 0
80/-273	Horizontal microscope with glass rotating stage, fitted with objective and eyepiece	18. 0
8.-274	An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece	
275	A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror	
276	A sub-stage condenser with centering screws; another condenser and 2 others	
8.-277	An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline	
80/-278	Expensive model of the human eye, another model, and a model with lens on stand	2. 0. 0
279	Pseudoscope in case, and a direct vision spectroscope with adjustable slit; and comparison prism by Browning	
279A	A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus	
280	An expensively made pair of prisms on stand showing the recomposition of light	
281	Expensively made stand for a pseudoscope and a Newton ring apparatus	
282	A small level and a Bunsen burner	
283	A telescope with stand and other fittings in case	

6. 284	Albertottie's micrometer microscope with rack revolving micrometer scale, divided in silver, made by Bartels & Diederichs	6.6.0
285	Student's microscope by Bausch & Lomb, rack coarse adjustment, micrometer fine adjustment	
286	Ditto, ditto	
287	Portable microscope with eyepiece, in glass-topped case	
60/- 288	Artificial model of eye, and a large mounted mirror on stand with ball and socket movements	1.10.0
289	Set of high-power achromatic magnifiers with holder, by Steinheil	
290	A press showing the polarising effect of stress in glass cubes, and another for bars, by Hoffman, Paris	
291	Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers	
10. 292	*Presentation binocular microscope by Tolles*, rack adjustment for width of eyes, mechanical micrometer goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces	
6. 293	Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces	
8. 294	Presentation binocular by Zentmayer, rotating goniometer stage, rack adjusting sub-stage, rack coarse adjustment, graduated fine adjustment; instrument rotates on the base, which is graduated	
295	Ten various eyepieces	
5. 296	Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece	3.0.0
297	Demonstration microscope fitted with eyepiece and objective; and another with eyepiece	

40/-	298	Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece; and another	1-17-6
	299	Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage	1. 10.
	300	Demonstration microscope on stand, with eyepiece and objective, by Chevalier	
6.	301	McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece	1. 10. 0
	302	Portable microscope by Verick	
	303	Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case	
60/-	304	Student's microscope with folding foot	
	305	Student's microscope, rack coarse adjustment and Wales' form of inclination	
75/-	306	Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand	1. 10. 0
60/-	307	Dissecting microscope with 3 powers on stand, another with 3 powers, and another	12. 0
7.	308	A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye	3. 10. 0
50/-	309	Dissecting microscope with 3 powers, and Huxley's dissecting microscope	1. 0. 0
85/-	310	Trichina microscope, revolving glass stage with rack adjustment	2. 5. 0
85/-	311	Microscope with large micrometer stage and screw adjustments	3. 0. 0
	312	Four small microscopes	
7.	313	An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross; fitted with a pair of "B" eyepieces	
	314	An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment	
	315	Two student's microscopes, rack coarse adjustments	
40/-	316	Portable microscope by Collins, and a small ditto	~~2. 10. 0~~
	317	Two student's microscopes with rack adjustments	

318 Student's microscope by Ladd, rack adjustment

319 Bacteriological microscope, by Bethle & Rexroth

320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective

(10·) 321 Stein's electric light microscope fitted with lamps and resistances 5.0.0

322 Portable microscope by Baker, and eyepiece, in leather case with straps

323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, ¼in. with lieberkuhn, ½-in. correction collar, etc., in case

(6·) 324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer

(6·) 325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye

326 Student's microscope fitted with swing-out sub-stage and Abbé condenser

327 Biological microscope fitted with extra large stage, by Schmidt & Haemsch

(20·) 328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective 15.0.0

(45/-) 329 Lossener's combined microscope and telescope with tripod stand 1.6.0

(8/-) 330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser 3.0.0

(80/-) 331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes

I mind this

332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser; by Nachet

20. 333 A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*

5. 334 A binocular microscope by Beck, for the examination of large objects 2.5.0

335 Five small microscopes

336 A small microscope on stand, and 3 others

7. 337 A Leiter's stomach microscope 3.0.0

50/- 338 A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris

339 A Geneva Co.'s calliper microscope with graduated scale

5. 340 An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions 4.0.0

6. 341 An expensively made microscope for the investigation of objects under the air pump, with table clamp 1.15.0

4. 342 An expensively made microscope for the investigation of Newton's rings, with micrometer movements

343 A dissecting microscope and a microscope lamp, by R. & J. Beck

344 A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver

6. 345 Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements 3.0.0

5. 346 Aquarium microscope with outer glass tube, and rack coarse adjustment 3.0.0

347 An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

348 A horizontal microscope by Chevalier, and brass stand

349 An expensively made lens holder on stand, with rack adjustment, and a microscope by Murray & Heath

350 An inverted chemical microscope by Nachet

5. 351 A vibration microscope, fitted with rack adjustment, eyepiece, objective and tuning fork

6. 352 An expensively made reading microscope, fitted with micrometer, divided on silver, and prismatic eyepieces

353 A binocular microscope by Smith & Beck (A.F.)

70/- 354 An inverted chemical microscope by Nachet

£ 0 0

60/- 355 An expensively made micrometer reading microscope by the Cambridge Scientific Instrument Co.

1 16 0

356 Aquarium micro cope on stand, fitted with eyepiece and objective

70/- 357 A comparison microscope with graduated movements to the stage

358 A Wasserlein saccharometer microscope, fitted with bi-quartz

359 A reading microscope with micrometer, screw motions, in horizontal directions, by Plossl, and a carrier for a reading microscope

360 An aquarium tank on stand by Klonne & Muller, and a bull's-eye condenser, no stand

90/- 361 An aquarium microscope, a lens holder on stand, and an aquarium on stand

1 0 0

16. 362 An expensively made binocular examination microscope with graduated rack adjustment to eyepieces, and graduated coarse adjustment, reading by vernier, by C. G. Collin, Stockholm

1 0 0

363 An inverted chemical microscope by Nachet, adjusting swing-out sub-stage with condensing lens, micrometer movements to the stage

364 A large bull's-eye stand condenser, 4-in. lens

365 A microscope lamp, fitted with bull's-eye condenser and sterilizer

366 A bull's-eye stand condenser, 3-in. lens

367 Two ditto

C 40/- 368 An inverted microscope by Nachet 1·6·0

369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens

370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye

50/- 371 A projection microscope on ornamental stand 1·10·0

85/- 372 An horizontal microscope by Nachet, fitted with eyepiece and powers 3·0·0

373 A large 4-in. lamp and condenser in brass mount, with slide holder

40/- 374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs 1·12·6

375 An expensively made heliostat

376 A microscope table with revolving casters

90/- 377 An expensively mounted tuning fork, to show vibrations in microscope 2·0·0

378 A fitted microscope case with microscope tubes, and other sundries

379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries

5/- 380 Seventeen small seed microscopes

40/- 381 Fourteen seed and other small microscopes

35/- 382 Fifteen seed and botanical microscopes 1·4·0

40/- 383 Nine Coddington and other hand magnifiers

8/- 384 Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles 1·10·0

385 Fifteen small hand microscopes

386 Twenty ditto magnifiers, etc.

85/- 387 Twenty-two various small magnifiers, in 2 cases 1·10·0

388 A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case

60/- 389	Two trichinoscope, a small compass microscope, a binocular hand magnifier, and a small microscope in case	18. 0
390	A focusing glass by Ross, and another	
391	Three dozen slides—various	
392	Ditto	
393	Ditto	
394	Sixteen fine test diatoms, and 17 others	
395	Three dozen sections of shells, pearls, etc.	
396	Three dozen insects, etc., by Enoch, Topping, and other good mounters	
397	Thirty fine insect and insect parts, including the scarce fairy fly, by Enoch and other good mounters	
398	Thirty-eight insect parts, and various	
399	Forty-one large insect parts and botanical	
400	Twenty-eight various and 6 large injected slides	
401	Two dozen large injected slides	
402	Nineteen fine coal sections	
403	Four rock sections, including 2 of the scarce Eozoon Canadense and 36 others, including scarce platino cyanides, and other polarising salts	
404	Thirty-one slides, various, by Enoch and others	
405	Twenty-four test diatoms	
406	Eight choice exhibition slides	
407	Two dozen exhibition objects, in case	
408	Eight choice slides showing the anatomy of the insect on one slide	
409	A scarce diamond writing at the rate of 12 bibles to the inch, and another	
410	A ditto	
411	A scarce diamond writing at the rate of 13 bibles to the inch	
412	A scarce diamond writing at the rate of 14 bibles to the inch, and another 16 bibles to the inch	
413	A scarce diamond writing at the rate of 15 bibles to the inch, and another 10 bibles to the inch	
414	A scarce diamond writing at the rate of 47 bibles to the inch	

415 Noberts' ruling 11 bands, *now very scarce*
416 Ditto, 17 ditto
417 Ditto, 19 ditto
418 Ditto, 20 ditto

Another Property.

419 *Binocular microscope by Watson, "Edinburgh Students' Model," with* 2 *B and* 1 *C eyepieces, 1-in. and* $\frac{1}{8}$*-in. objectives, by Watson, and a* $\frac{1}{12}$*-in. ditto by Powell & Lealand;* coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, *Abbê* condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (*perfect condition*)
420 Microscopic lamp with bull's-eye, in case
421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
422 Forty-three well mounted micro slides, contents of 2 drawers
423 Forty-eight ditto
424 A ditto lot
425 Sixty ditto, contents of 3 drawers
426 A Morton's opthalmoscope in case
427 Old medical book with coloured illustrations
428 An air pump with glass shade
429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
430 Pair Carl Zeiss prismatic binoculars, 8x, in case
431 An electric copper kettle, 1½ pints, 200-210 volts, complete with flexible and adapter; perfect order
432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
433 A 4-volt 40 amp. "Ever Ready" ditto
434 An 8-volt 30 amp. accumulator, charged

435	Three 2-volt 100 amp. "Lucas," charged
436	Half-dozen 4-volt 4 amp. "King Eton," new
437	Half-dozen 4-volt 4 amp. ditto, ditto
438	Half-dozen 4-volt 4 amp. ditto, ditto

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and Curios from Omdurman, the Property of an Officer.

Chinese and Japanese Porcelain ; Ivories ; Bronzes ; Native Curios, etc.

THURSDAY, NOVEMBER 18th, and FRIDAY, NOVEMBER 19th :—

Scientific and Photographic Apparatus ; Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also Cabinets, being the Collections of Captain Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and Roman Antiquities.

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EVERY FRIDAY a Sale is held which includes Microscopes, Telescopes, Cameras, Lenses, Lanterns, Cinematographs, Theodolites and Levels, and every class of Scientific Instrument; Lathes and Tools, Furniture, Silver Plate, Jewellery, Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES, ARMS AND ARMOUR, IVORIES, ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS,** twice in every month.

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MONTHLY Sales of Collections, relating to Entomology, Ornithology, Conchology, Minerals, Heads and Horns, Cabinets, etc.

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